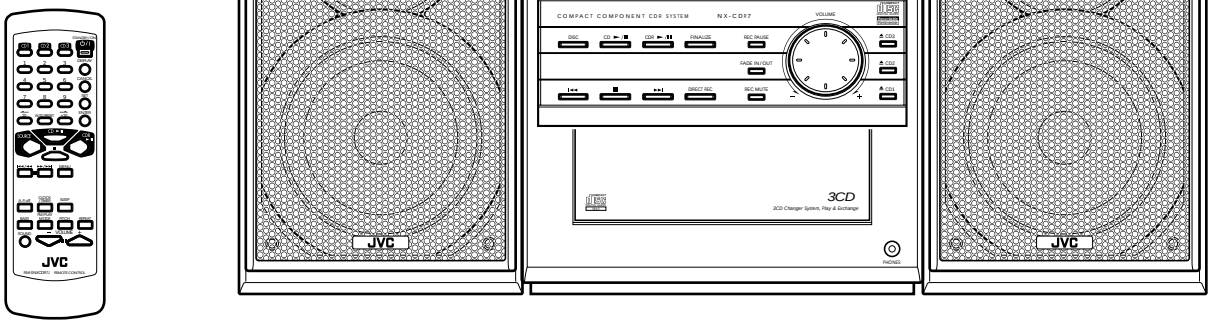
JVC

COMPACT COMPONENT CDR SYSTEM
SYSTEME CDR DE COMPOSANTS COMPACT

NX-CDR7
— Consists of CA-NXCDR7 and SP-NXCDR7
— Composé du CA-NXCDR7 et SP-NXCDR7

SP-NXCDR7 CA-NXCDR7 SP-NXCDR7



COMPACT disc DIGITAL AUDIO Recordable ReWritable
COMPACT disc DIGITAL AUDIO TEXT
COMPACT disc DIGITAL AUDIO

INSTRUCTIONS
MANUEL D'INSTRUCTIONS

For Customer Use:

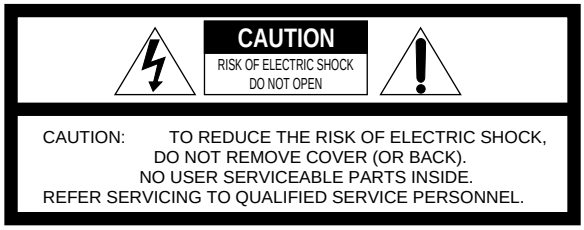
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

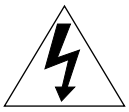
Model No. _____

Serial No. _____

LVT0749-002A
[J(C)]

Warnings, Cautions and Others
Mises en garde, précautions et indications diverses


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

Caution –– STANDBY/ON ⏻/I button!
Disconnect the mains plug to shut the power off completely. The STANDBY/ON ⏻/I button in any position does not disconnect the mains line. The power can be remote controlled.

Attention –– Commutateur STANDBY/ON ⏻/I!
Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur STANDBY/ON ⏻/I ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **DANGER**: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser invisible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

English

Français

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND.

For Canada/pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED “DIGITAL APPARATUS,” ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.

CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMIRIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: “APPAREILS NUMERIQUES”, NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

English

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Introduction

Continued

We would like to thank you for purchasing one of our JVC products. Before operating this unit, read this manual carefully and thoroughly to obtain the best possible performance from your unit, and retain this manual for future reference.

About This Manual

This manual is organized as follows:

- **This manual mainly explains playback operations using the remote control, and the other operation such as recording and editing operations using the buttons and controls on the unit.**
  You can use the buttons and controls both on the remote control and on the unit for the same operations if they have the same or similar names (or marks), unless mentioned otherwise.
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated in each procedure. For instance, we do not repeat the information about turning on/off the unit, setting the volume, changing the sound effects, and others, which are explained in the section “Basic and Common Operations” on pages 13 – 16.
- The following marks are used in this manual:

	Gives you warning and caution to prevent from damage or risk of fire/electric shock. Furthermore, gives you information which is not good for obtaining the best possible performance from the unit.
	Gives you information and hints you had better know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold—between 5˚C (41˚F) and 35˚C (95˚F).
- Install the unit in a location with adequate ventilation to prevent internal heat buildup in the unit.
- Leave sufficient distance between the unit and the TV.
- Keep the speakers away from the TV to avoid interference with TV.

DO NOT install the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or vibration.

Power sources

- When unplugging the unit from the wall outlet, always pull the plug, not the AC power cord.

DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting heating in the room
- In a damp room
- If the unit is brought directly from a cold to a warm place

Should this occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, then plug it in again.

Others

- Should any metallic object or liquid fall into the unit, unplug the AC power cord and consult your dealer before operating any further.
- If you are not going to operate the unit for an extended period of time, unplug the AC power cord from the wall outlet.

DO NOT disassemble the unit since there are no user serviceable parts inside.

If anything goes wrong, unplug the AC power cord and consult your dealer.

English

Precautions on Disc Playback and Recording

Playback

This unit has been designed to play back discs bearing the following logos:

CD ReWritable (CD-RW)

CD Recordable (CD-R)

Audio CD

CD Text
(Text information can be shown only when playing on 3-CD Changer.)

In addition to the above discs, this unit can play back audio data recorded on CD-G (CD Graphics) and CD-Extra.

Notes on playing a CD-R or CD-RW:

- The built-in CD Recorder can play back both finalized and unfinalized CD-Rs/CD-RWs.
- **The built-in 3-CD Changer can play back only finalized CD-Rs/CD-RWs.**
- Either on 3-CD Changer or on CD Recorder, you can play back CD-Rs or CD-RWs recorded on a personal computer only if they have been recorded in the CD audio format.
- Neither on 3-CD Changer nor on CD Recorder, you can play back MP3 discs.
- Some CD-Rs and CD-RWs may not be played back either on 3-CD Changer or on CD Recorder because of their disc characteristics, damage or stains.

Important notice:

- Continuous use of irregular–shaped discs (heart-shape, octagonal, etc.) can damage the disc rotating mechanism.

- CD-RWs may require a longer readout time. This is caused by the fact that the reflectance of CD-RWs is lower than for regular CDs.

Recording

This unit has been designed to record on the discs bearing the following logos:

CD ReWritable (CD-RW)

CD Recordable (CD-R)

In addition to the logos shown above, the words shown below or their equivalent should also be indicated somewhere on the package or accompanying documentation.

- **FOR CONSUMER**
- **FOR CONSUMER USE**
- **FOR MUSIC USE ONLY**

The following discs cannot be used for recording:

- **Discs bearing logos other than the above.**
- **Discs intended for professional use.**
- **Discs intended for recording computer data.**

Important notice:

- The manufacturer assumes no liability whatsoever for any damage resulting from missed opportunity or accidental erasure that occurs while conducting recording or playback operations due to malfunctioning of or trouble in the unit, or for any incidental damage.
- Before recording on a CD-R, it is recommended to make a test recording using a CD-RW.
- If PCA (Power Calibration Area) or PMA (Program Memory Area) of the disc is recorded fully, recording cannot be performed on this disc even though there are still unused memory spaces on the disc.

STOP!

- DO NOT subject the unit to any shock or vibration while recording.
- DO NOT use a dusty or scratched CD-R/CD-RW for recording; otherwise, you cannot obtain the satisfactory recording quality.

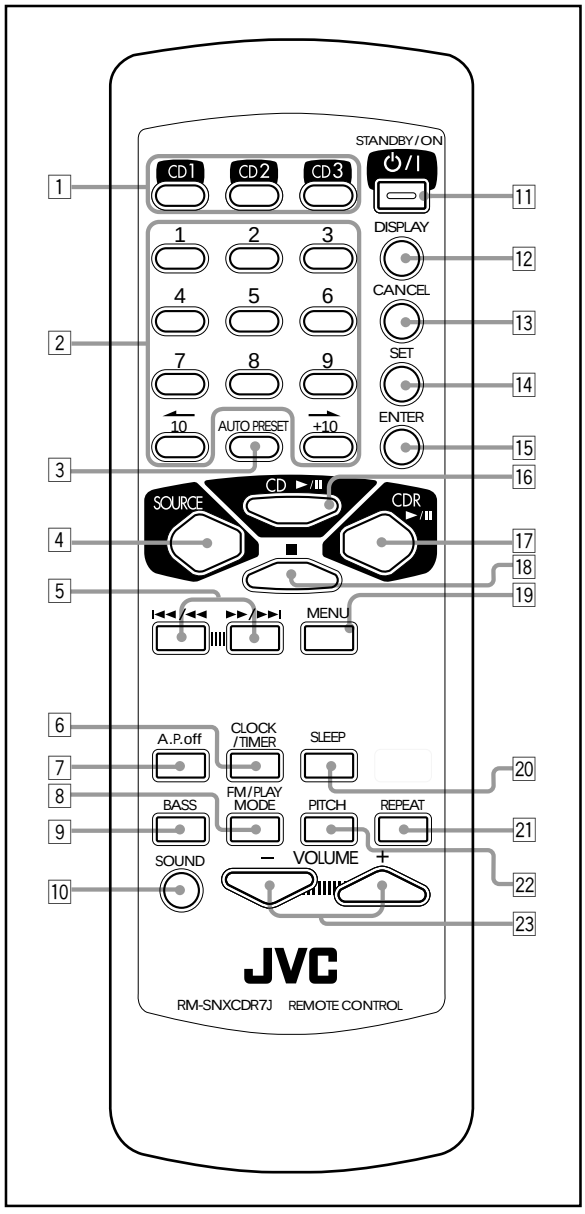
It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic embodied therein.

Location of the Buttons and Controls

English

Become familiar with the buttons and controls on your unit.

Remote Control



See pages in the parentheses for details.

Remote Control

1 Disc number buttons (21, 22)
- CD1, CD2, and CD3
  Pressing one of these buttons also turns on the unit.

2 Number buttons
- 1 – 10, +10 buttons (19, 22 ,27)
- ⟵ / ⟶ buttons (16)

3 AUTO PRESET button (18)

4 SOURCE button (14, 18)
- *Pressing this button also turns on the unit.*

5 I◄◄ / ◄◄ (reverse search/fast-reverse) button (16, 18, 22, 23, 25, 27, 40 – 42, 45– 48)
►► / ►►I (fast-forward/forward search) button (16, 18, 22, 23, 25, 27, 40 – 42, 45 – 48)

6 CLOCK/TIMER button (45 – 48)

7 A.P.off (auto power off) button (49)

8 FM/PLAY MODE button (18, 22, 23)

9 BASS button (15)

10 SOUND button (16)

11 ⏻/I (STANDBY/ON) button (14)

12 DISPLAY button (14, 15, 25, 32)

13 CANCEL button (23, 40, 45 – 48)

14 SET button (14, 16, 19, 45 – 48)

15 ENTER button (40 – 43)

16 CD ► / II (play/pause) button (14, 21)
- *Pressing this button also turns on the unit.*

17 CDR ► / II (play/pause) button (14, 27)
- *Pressing this button also turns on the unit.*

18 ■ (stop) button (14, 21, 27, 31)

19 MENU button (40)

20 SLEEP button (49)

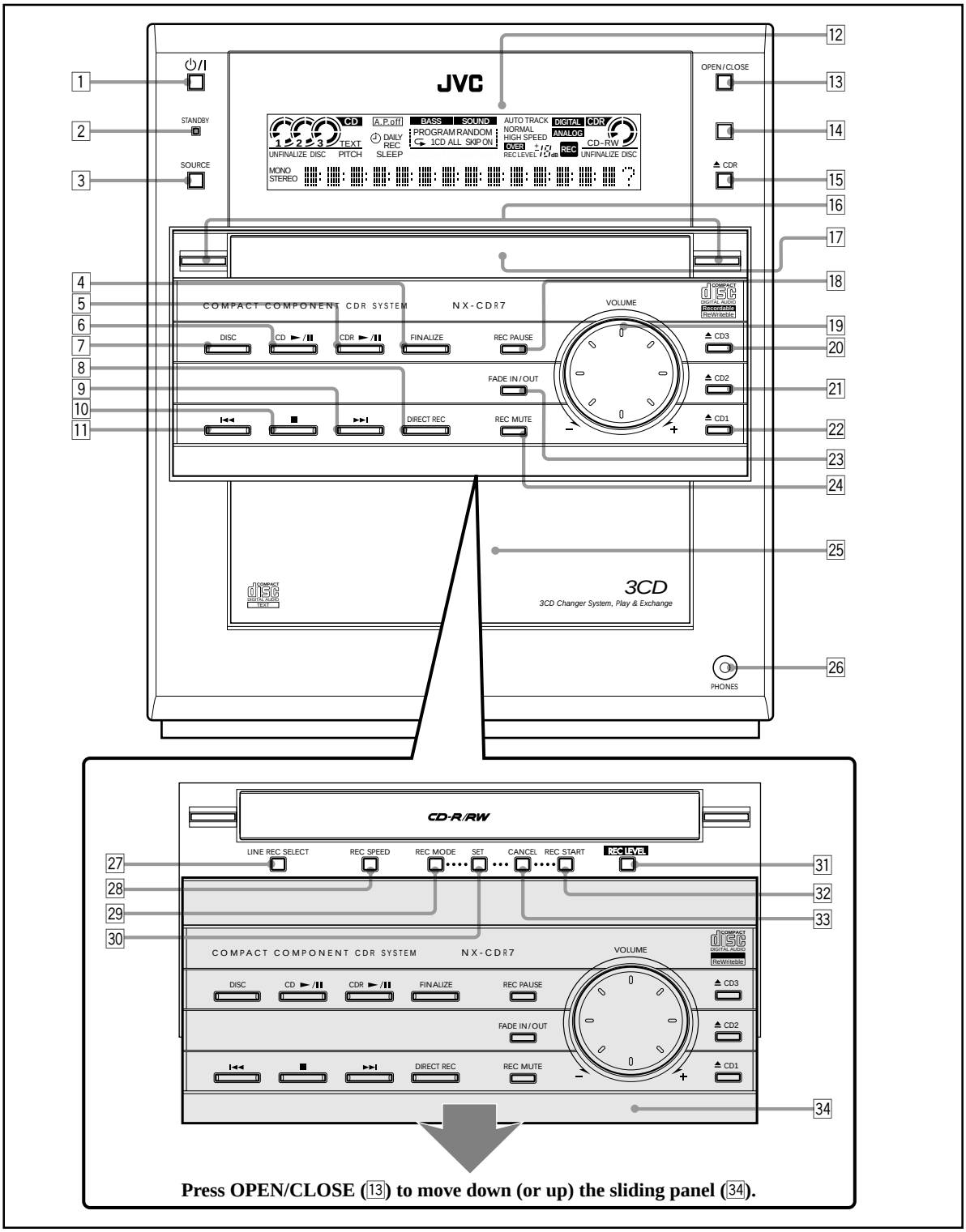
21 REPEAT button (24, 27)

22 PITCH button (25)

23 VOLUME + / – buttons (15)

English

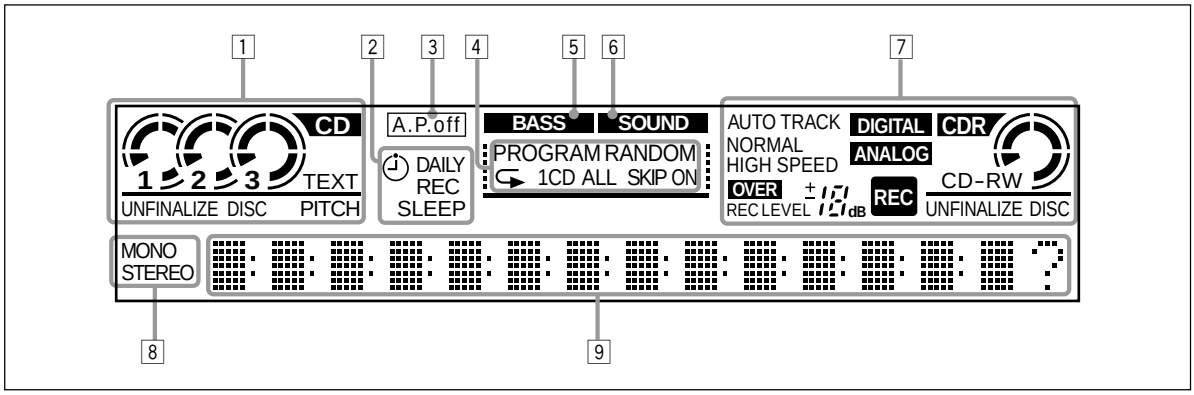
Main Unit



Main Unit

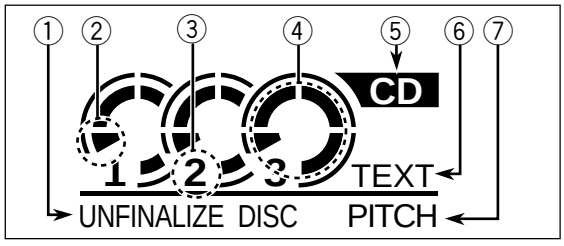
1 ⏻/I (Standby/On) button (14)
2 STANDBY lamp (14)
3 SOURCE button (14, 18)
• *Pressing this button also turns on the unit.*
4 FINALIZE button (31, 38)
5 CDR ► / ❚❚ (play/pause) button (14, 27, 31)
• *Pressing this button also turns on the unit.*
6 CD ► / ❚❚ (play/pause) button (14, 21)
• *Pressing this button also turns on the unit.*
7 DISC button (21, 22, 24)
8 DIRECT REC button (33)
9 ►►I (forward skip) button (18, 22, 27)
10 ■ (stop) button (14, 21, 25, 27, 31)
11 I◄◄ (reverse skip) button (18, 22, 27)
12 Display window
13 OPEN/CLOSE button
• *Pressing this button also turns on the unit.*
14 Remote sensor
15 ▲ (open/close) CDR button (27, 31)
• *Pressing this button also turns on the unit.*
16 CDR lamps (14, 27)
17 CDR disc tray
18 REC PAUSE button (25, 31)
19 VOLUME control (15, 32)
20 ▲ (open/close) CD3 button (21)
• *Pressing this button also turns on the unit.*
21 ▲ (open/close) CD2 button (21)
• *Pressing this button also turns on the unit.*
22 ▲ (open/close) CD1 button (21)
• *Pressing this button also turns on the unit.*
23 FADE IN/OUT button (31)
24 REC MUTE button (32)
25 Disc tray compartment—CD1, CD2, and CD3
26 PHONES jack—stereo mini type (15)
27 LINE REC SELECT button (31)
28 REC SPEED button (33 – 36)
29 REC MODE button (34 – 38)
30 SET button (14, 36, 40 – 43)
31 REC LEVEL button (32)
32 REC START button (34 – 38)
33 CANCEL button (23, 36, 40)
34 Sliding panel

Display Window



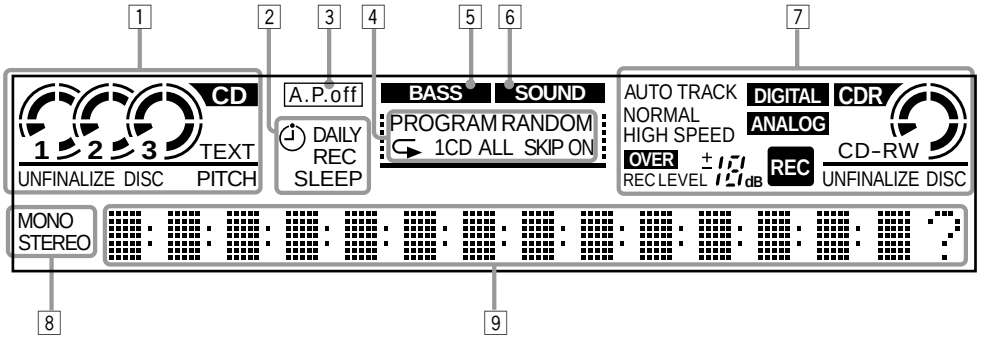
Display Window

1 CD indicators



① UNFINALIZE DISC indicator: lights when an unfinalized disc is loaded.
② Current disc indicator: indicates the currently selected disc.
③ Disc number indicator
④ Disc loading indicator
– Flashes while the corresponding disc is playing or pausing.
– Goes off (except numbers) when the unit has detected that there is no CD on the corresponding disc tray.
– Lights while a disc is loaded and detected.
⑤ CD source indicator: lights when 3-CD Changer is selected as the playback source.
⑥ TEXT indicator (25)
⑦ PITCH indicator (25)

Display Window



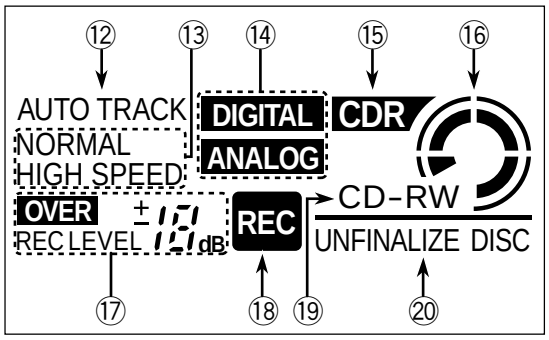
2 Timer mode indicators (45 – 49)

⑧ (Timer) indicator (45)
⑨ DAILY (Daily Timer) indicator (47)
⑩ REC (Recording Timer) indicator (45)
⑪ SLEEP (Sleep Timer) indicator (49)

3 A.P.off (Auto Power off) indicator (49)
4 CD/CDR play mode indicators (22 – 24, 42)
- PROGRAM, RANDOM, and (repeat)—1/CD/ALL, and SKIP ON indicators

5 BASS indicator (15)
6 SOUND indicator (16)

7 CDR and recording mode indicators



⑫ AUTO TRACK indicator (29)
⑬ Recording speed indicator (NORMAL SPEED/HIGH SPEED)
⑭ Recording source (input) indicator
– DIGITAL lights while digital recording is performed.
– ANALOG lights while analog recording is performed.
⑮ CDR source indicator: lights when the CD Recorder is selected as the playback source.
⑯ Disc indicator: lights when a disc is loaded on the CDR disc tray.
⑰ REC LEVEL indicator
– OVER lights when the input level is too high.
⑱ REC (recording) indicator
– Flashes while in recording pause.
– Lights while recording.
⑲ Disc type indicators (CD, CD-R, CD-RW)
⑳ UNFINALIZE DISC indicator: lights when an unfinalized disc is loaded.

8 Tuner mode indicators (18)
- MONO and STEREO indicators

9 Main display
- Shows the source name, track number, and other information.

Getting Started

English

Unpacking

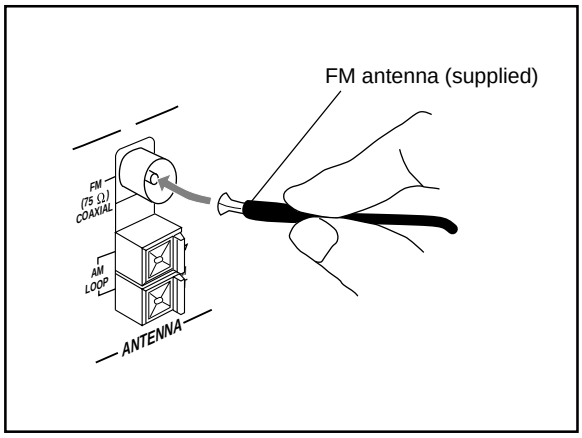
After unpacking, check to be sure that you have all the following items.
The numbers in the parentheses indicate the quantity of the pieces supplied.

- AM loop antenna (1)
- FM antenna (1)
- Remote control (1)
- Batteries (2)
- Speaker cord (2)

If any item is missing, consult your dealer immediately.

Connecting Antennas

FM antenna



1 **Attach the FM antenna to the FM (75 Ω) COAXIAL terminal.**

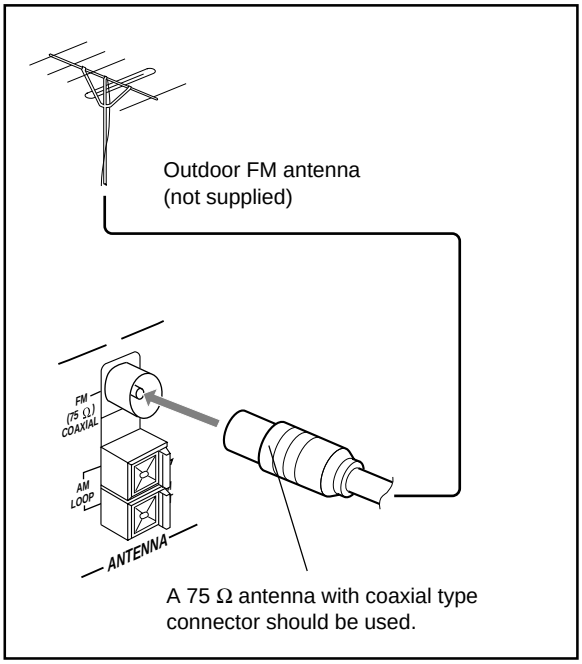
2 **Extend the FM antenna.**

3 **Fasten it up in the position which gives you the best reception.**

About the supplied FM antenna
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outdoor FM antenna.

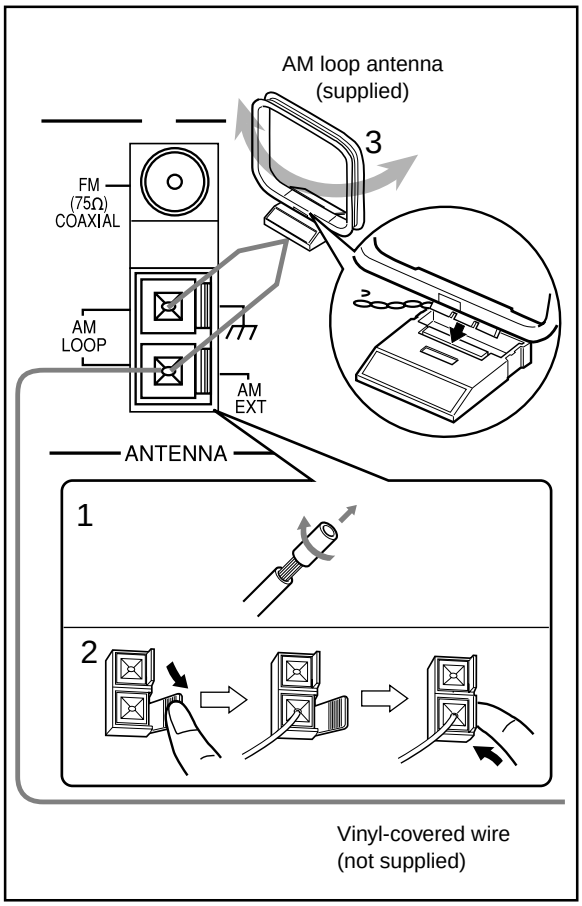
To connect an outdoor FM antenna

Before connecting it, disconnect the supplied FM antenna.



English

AM antenna



1 **If cords are covered with insulation, twist the core of the cord at the end of each cord, then remove the insulation.**

2 **Connect the AM loop antenna to the AM LOOP terminals as illustrated.**

3 **Turn the AM loop antenna until you have the best reception.**

To connect an outdoor AM antenna

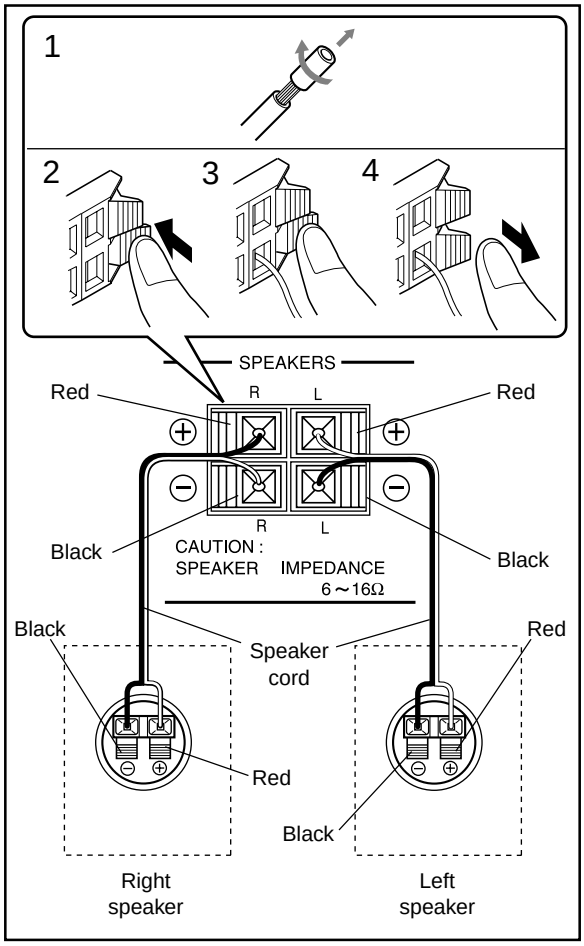
When reception is poor, connect a single vinyl-covered wire to the AM EXT terminal and extend it horizontally. Keep the AM loop antenna connected.

For better reception of both FM and AM

- Make sure the antenna conductors do not touch any other terminals and connecting cords.
- Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Speakers

You can connect the speakers using the speaker cords.



1 **If cords are covered with insulation, twist the core of the cord at the end of each cord, then remove the insulation.**

2 **Hold the clamp of the speaker terminal.**

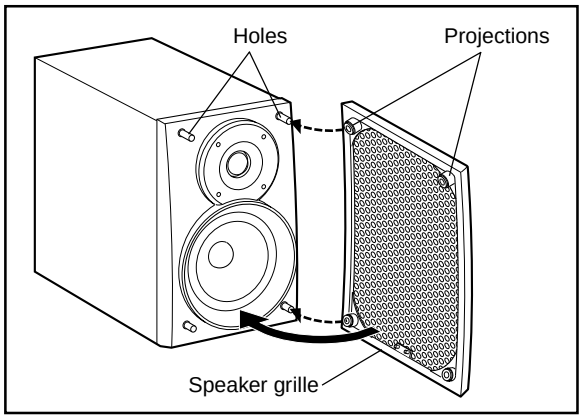
3 **Insert the end of the speaker cord to the terminal.**
Match the polarity of the speaker terminals: Red (+) to red (+) and black (–) to black (–).

4 **Release the finger from the clamp.**

Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the unit.

To remove the speaker grilles

The speaker grilles are removed as the illustration below.



To remove the speaker grille, inserting your fingers at the top of the speaker grille, pull towards you. Then pull the bottom towards you.

To attach the speaker grille, put the projections of the speaker grille into the holes of the speaker.

Connecting Other Components

When you connect and use other components, refer also to the manuals supplied with them.

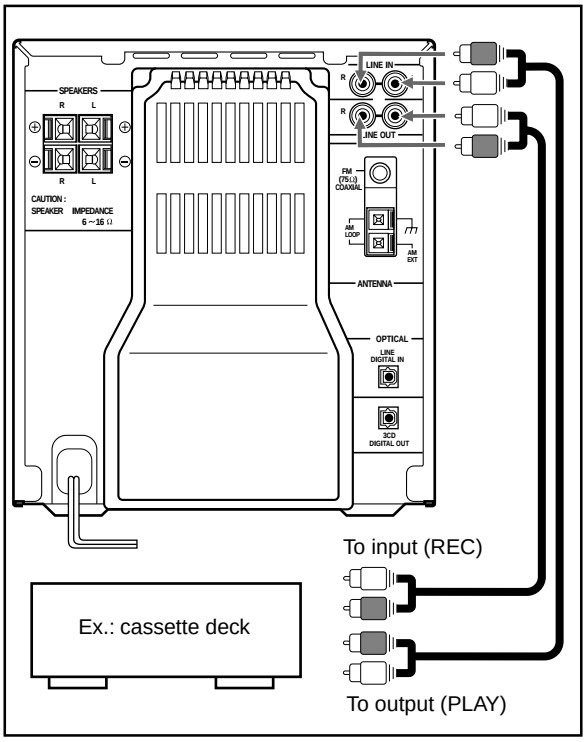
STOP!

- DO NOT connect other components while the power is on.
- DO NOT plug in any component until all connections are complete.

To connect an analog component such as a cassette deck

Be sure that the plugs of the audio cords and the jacks on the rear of the unit are color-coded: White plugs and jacks are for left audio signals, and red ones for right audio signals.

You can enjoy playback and recording on the other connected component.



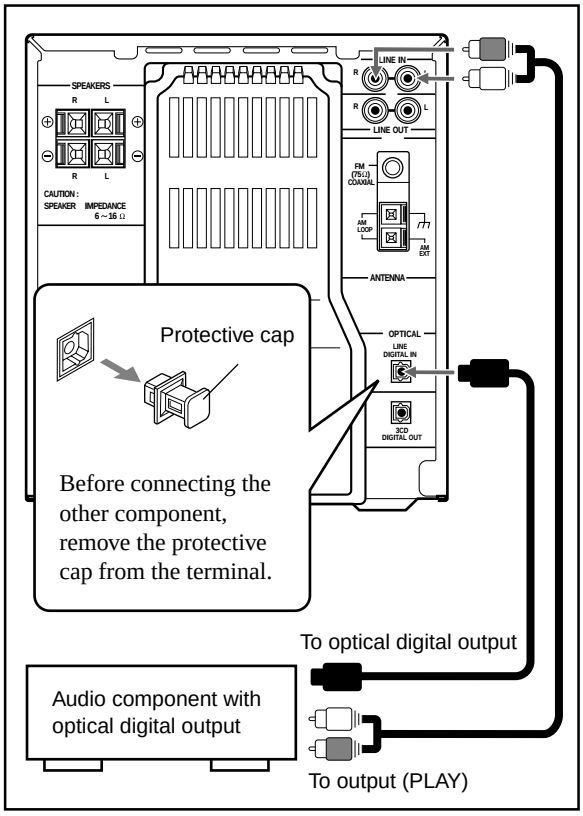
By using audio cords (not supplied), connect:

- Between the audio input jacks on the cassette deck and the LINE OUT jacks.
- Between the audio output jacks on the cassette deck and the LINE IN jacks.

English

To connect digital components

- **When connecting a digital component equipped with an optical digital output terminal**
  The following connection allows you to perform digital-to-digital recording (through the digital terminals) and playback of the connected digital component (through the analog terminals.)



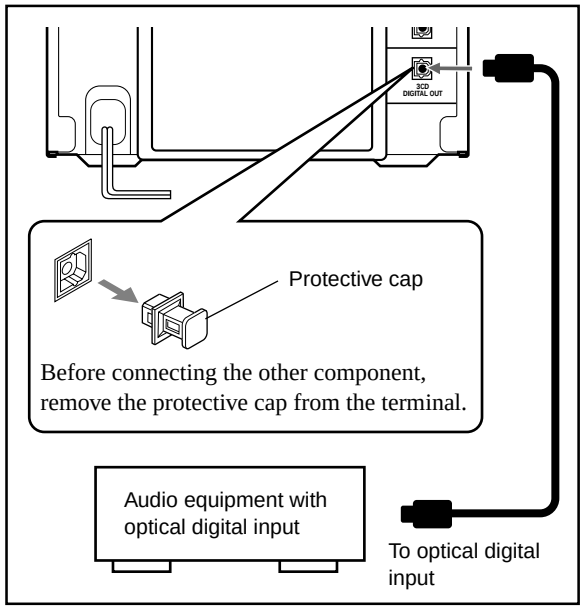
By using an optical digital cord (not supplied) and an audio cord (not supplied), connect:

- Between the optical digital output terminal on the other component and the LINE DIGITAL IN terminal.
- Between the audio output jacks on the other component and the LINE IN jacks. (This connection is required to play back sounds through this unit when the source is "LINE.")

The digital connection through the LINE DIGITAL IN terminal can be only used for recording.

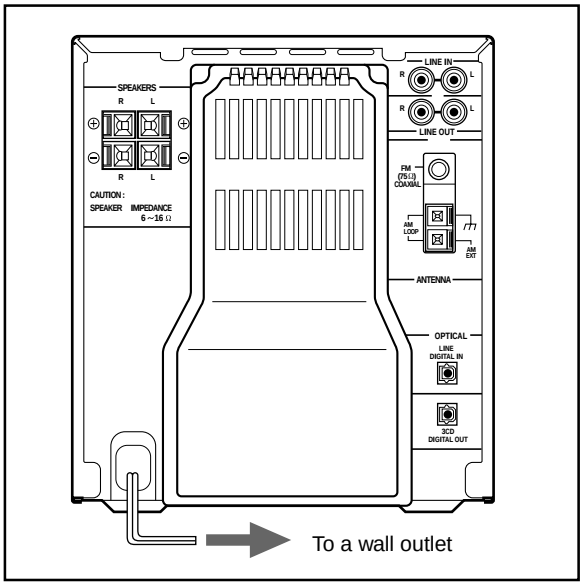
- When connecting a digital component to this unit, always connect it both to the LINE DIGITAL IN terminal and the LINE IN jacks.

- **When connecting a digital component equipped with an optical digital input terminal**
  You can record playback sounds of 3-CD Changer onto the other component—digital-to-digital recording.


3CD DIGITAL OUT
Protective cap
Before connecting the other component, remove the protective cap from the terminal.
Audio equipment with optical digital input
To optical digital input

Connect between the optical digital input terminal on the other component and the 3CD DIGITAL OUT terminal.

NOW, you can plug in the unit and other connected components FINALLY!



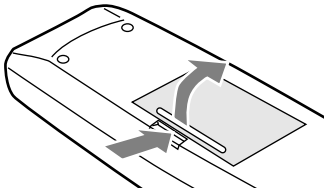
Putting the Batteries into the Remote Control

Insert the batteries—R6(UM-3)/AA(15F)—into the remote control, by matching the polarity (+ and –) on the batteries with the + and – markings on the battery compartment. When the remote control can no longer operate the unit, replace both batteries at the same time.

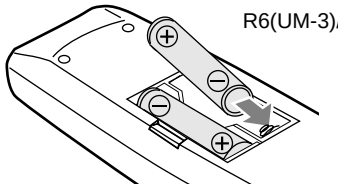
STOP!

- DO NOT use an old battery together with a new one.
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.
- DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time. Otherwise, it will be damaged from battery leakage.

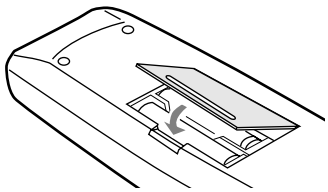
1



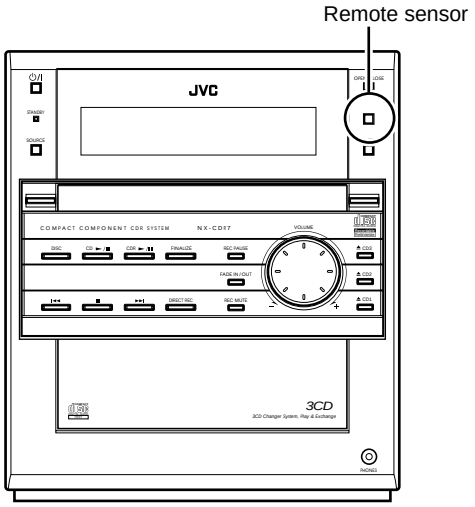
2



3



When using the remote control, point it at the remote sensor on the front panel.

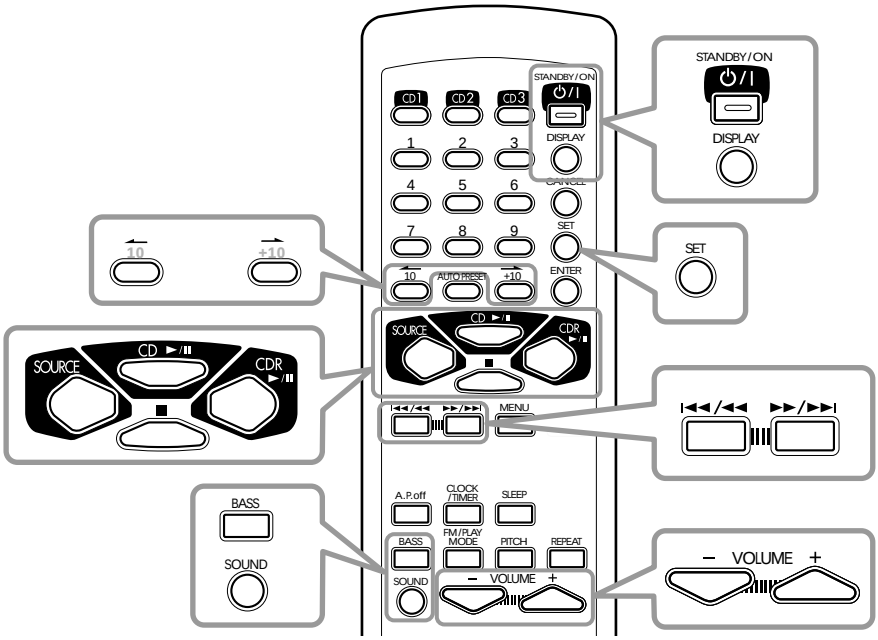


English

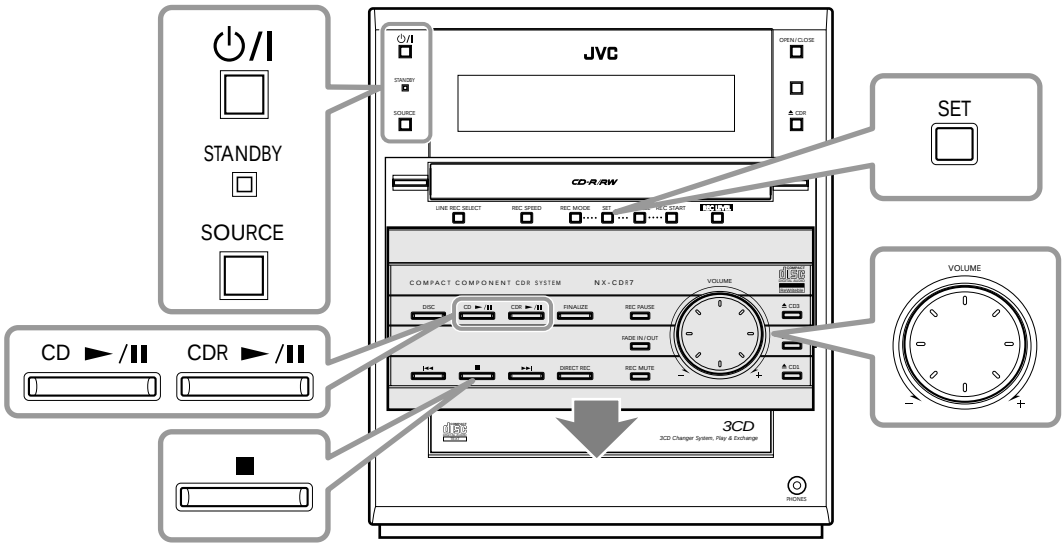
Basic and Common Operations

The buttons and controls enlarged in the illustration below are used and explained in this section (pages 14 to 16).

Remote control



Main unit



Press OPEN/CLOSE to move down (or up) the sliding panel.

Before operating the unit any further, first set the clock built in this unit (see page 45).

Turning On the Power

To turn on the unit without playing, press ⏻/I so that the STANDBY lamp on the unit goes off, and the CDR lamps light.

To turn off the unit (on standby), press ⏻/I again so that the STANDBY lamp lights red, and the CDR lamps go off.

- When the power is off (on standby), clock time appears in the main display—initial setting when shipped from the factory (see "Saving the Power Consumption while On Standby" below).
- A little power is always consumed even while the unit is in standby mode.

To switch off the power supply completely, unplug the AC power cord from the AC outlet.

Saving the Power Consumption while On Standby

You can save the power consumption while the unit is turned off by erasing the clock display.

To save the power consumption while on standby, press DISPLAY on the remote control while the unit is turned off (on standby—while the STANDBY lamp lights red).

- Power consumption during standby is reduced (see "Specifications" on page 54) and the clock will not be shown while the unit is turned off (on standby).

To cancel the power consumption saving mode, press DISPLAY again while the unit is turned off (on standby).

When you unplug the AC power cord or if a power failure occurs

The power consumption saving mode ("DISPLAY OFF") will be canceled.

Selecting the Sources and Starting Play

To select 3-CD Changer as the source, press CD ► / II. The unit automatically turns on. (Play starts if a CD is on the last selected disc tray.)
To stop play, press ■.

- For more detailed operations, see pages 20 to 25.

To select CD Recorder as the source, press CDR ► / II. The unit automatically turns on. (Play starts if a disc is in CD Recorder.)
To stop play, press ■.

- For more detailed operations, see pages 26 and 27.

To select the tuner and external component as the source, press SOURCE. The unit automatically turns on.

- Each time you press the button, the source changes as follows:

FM → AM → LINE

FM: To listen to an FM broadcast.
AM: To listen to an AM broadcast.
LINE: To play back the external component connected to the LINE IN jacks on the rear panel.

- For operating FM/AM, see pages 17 to 19.
- For operating the external components, refer to its manual.

To adjust the input level through the LINE IN jacks

If the sound from the component connected to the LINE IN jacks is too loud or is not loud enough when changing the source to "LINE" from another source (without adjusting the volume level), you can change the input level through the LINE IN jacks.

On the unit ONLY:

When the source is "LINE," press and hold SET (inside the sliding panel) repeatedly to select your desired level.

- Each time you press and hold the button, the input level changes—"LEVEL 1," "LEVEL 2," and "LEVEL 3."

LEVEL 1: Normally select this. (Initial setting when shipped from the factory.)
LEVEL 2: Select this when the sound is not loud enough.
LEVEL 3: Select this when the sound is too loud.

Adjusting the Volume

You can adjust the volume level only while the unit is turned on.

When using the remote control, press VOLUME + to increase the volume or press VOLUME – to decrease it.

When using the unit, turn VOLUME clockwise to increase the volume or counterclockwise to decrease it.

Ex.: When setting the volume level to “20”

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on the headphones.

If “CANNOT LISTEN” appears in the main display

During high-speed recording (see page 30), you cannot listen to any source, and therefore, cannot adjust the volume level.

For adjusting the recording level

Normally, the VOLUME control and VOLUME +/– buttons work to adjust the playback sound volume.
If you want to adjust the recording level, see “To adjust the recording input level” on page 32.

STOP!

DO NOT turn off (on standby) the unit with the volume set to an extremely high level; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the unit or start playing any source.
REMEMBER you cannot adjust the volume level while the unit is in standby mode.

Changing the Display Information

You can change the information in the main display.
- For display information while recording, see “To change the display information while recording” on page 32.

On the remote control ONLY:
Press DISPLAY repeatedly.
- Each time you press the button, the information in the main display changes as follows:

■ **When the source is CD Recorder:**
- Before playing—

Total track number/ Total playing time → Remaining time in the disc → Clock → Total track number/ Total playing time

- While playing—

Track number/ Elapsed playing time ⟷ Clock

■ **When the source is other than CD Recorder:**

Source indications ⟷ Clock

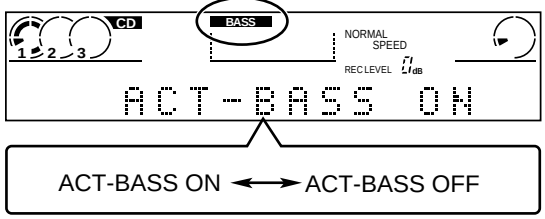
When the current playback source is a CD Text in 3-CD Changer

See “To show the text information recorded on a CD Text” on page 25.

Reinforcing the Bass Sound

The richness and fullness of the bass sound is maintained regardless of how low you set the volume—Active Bass.
- You can use this effect only for playback, but not for recording.

On the remote control ONLY:
Press BASS so that “ACT-BASS ON” appears in the main display.
The BASS indicator also lights on the display.
- Each time you press the button, Active Bass turns on and off alternately.



To cancel the effect, press the button again so that “ACT-BASS OFF” appears in the main display (and the BASS indicator goes off).

Selecting the Sound Modes

You can select one of the 5 preset sound modes and 2 manual modes.

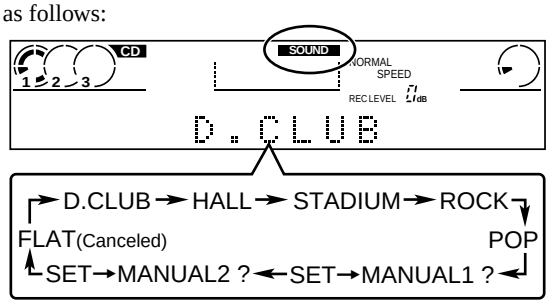
- You can use this effect only for playback, but not for recording.

On the remote control ONLY:

Press SOUND repeatedly until the sound mode you want appears in the main display.

The SOUND indicator also lights on the display.

- Each time you press the button, the sound modes change as follows:



D. (Dance) CLUB: Increases resonance and bass.*
HALL: Adds depth and brilliance to the sound.*
STADIUM: Adds clarity and spreads the sound, like in an outdoor stadium.*
ROCK: Boosts low and high frequency. Good for acoustic music.
POP: Good for vocal music.
SET→MANUAL1 ?: Your individual mode stored in memory **without** surround elements.**
SET→MANUAL2 ?: Your individual mode stored in memory **with** surround elements.**
FLAT: Cancels the sound mode.

* Surround elements are added to create a being-there feeling.
** See "Creating Your Own Sound Modes—MANUAL Modes" on the right column.

To check the sound mode currently selected, press SOUND once while the SOUND indicator is lit.
The currently selected sound mode appears in the main display.

Creating Your Own Sound Modes —MANUAL Modes

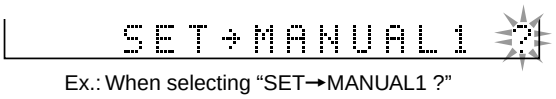
You can create and store your own sound modes.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the remote control ONLY:

1 **Press SOUND repeatedly until "SET→MANUAL1 ?" or "SET→MANUAL2 ?" appears in the main display.**

The SOUND indicator also lights on the display.



Ex.: When selecting "SET→MANUAL1 ?"

SET→MANUAL1 ?: Select this when you want to store your individual mode **without** surround elements.
SET→MANUAL2 ?: Select this when you want to store your individual mode **with** surround elements.

2 **Press SET.**

3 **Adjust the equalizer pattern.**

1) **Press ►► / ►►I or I◄◄ / ◄◄ to select the frequency range to adjust (LOW, MIDDLE, HIGH).**
2) **Press → (+10) or ← (10) to adjust the level (–3 to +3) of the selected frequency range.**

Ex.: When adjusting middle frequency range

3) **Repeat steps 1) and 2) to adjust the level of the other frequency ranges.**

4 **Press SET again (or wait until the above indication disappears).**

"MEMORY" appears in the main display and the equalizer pattern you have created is stored in memory.

To use your own sound mode

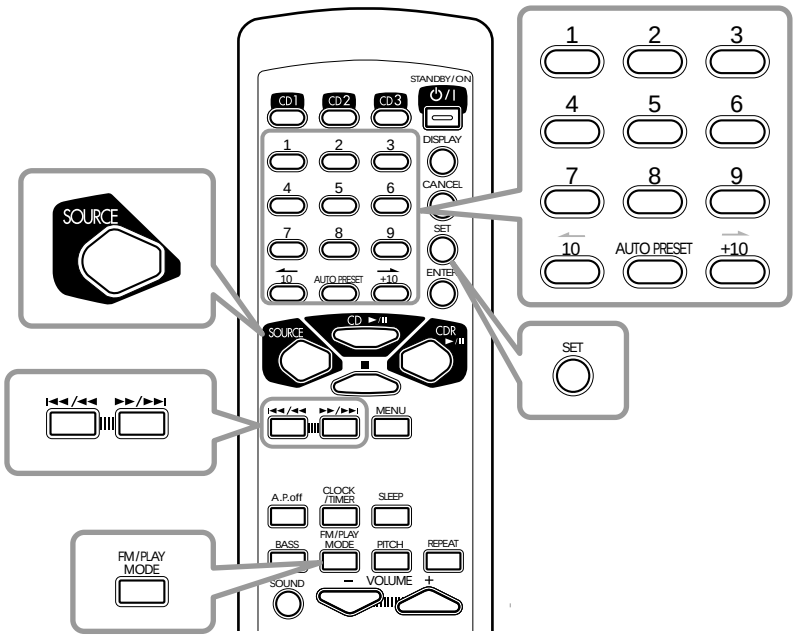
See "Selecting the Sound Modes" on the left column.

English

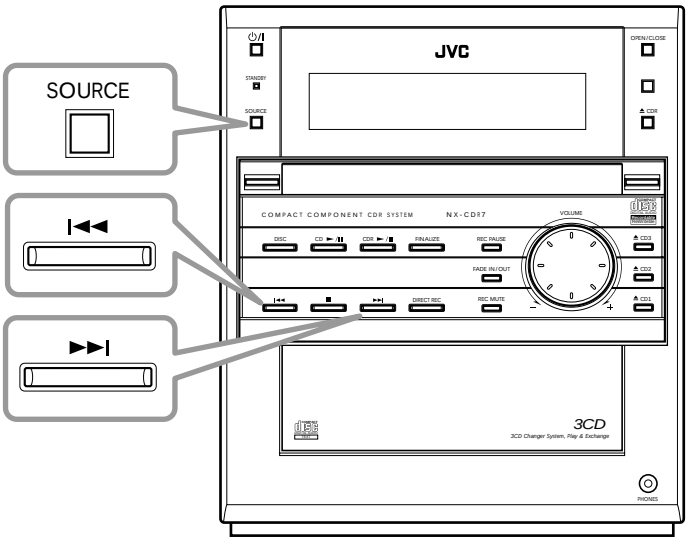
Listening to FM and AM Broadcasts

The buttons and controls enlarged in the illustration below are used and explained in this section (pages 18 to 19).

Remote control



Main unit



Continued

Tuning into a Station

1 Press SOURCE repeatedly until FM or AM is selected.

The unit automatically turns on and tunes into the previously received station (either FM or AM).

- Each time you press the button, the source changes as follows:

FM → AM → LINE

2 Tune into a station.

On the remote control:

Press and hold ►► / ►►I or I◄◄ / ◄◄ until the station frequencies start changing in the main display.

On the unit:

Press and hold ►►I or I◄◄ until the station frequencies start changing in the main display.

- ►► / ►►I (►►I): to increase the frequencies.
- I◄◄ / ◄◄ (I◄◄): to decrease the frequencies.

The unit starts searching stations and stops when a station of sufficient signal strength is tuned in.

- If an FM stereo program is received, the STEREO indicator lights on the display.

To stop during searching, press the same button you have pressed in step 2 above.

When you press the button briefly and repeatedly in step 2

The frequency changes step by step.

To change the FM reception mode

On the remote control ONLY:

When an FM stereo broadcast is hard to receive or noisy, press FM/PLAY MODE so that “MONO” appears in the main display.

The MONO indicator also lights on the display. Reception improves.

To restore the stereo effect, press FM/PLAY MODE again so that “AUTO” appears in the main display.

In this stereo mode, you can hear stereo sounds when a program is broadcast in stereo.

Presetting Stations

You can preset 30 FM and 15 AM stations—using either automatic presetting method or manual presetting method.

- You cannot store FM reception mode separately for each preset station.

In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

To preset stations automatically—Automatic Presetting

You need to preset stations separately for the FM and AM bands.

On the remote control ONLY:

1 Press SOURCE repeatedly until FM or AM is selected.

2 Press and hold AUTO PRESET for more than 4 seconds.

Automatic Presetting starts and local stations with strong signals are searched and stored in memory automatically.

When automatic presetting is over, the station stored in preset number 1 is tuned in.

3 Repeat steps 1 and 2 to store stations of the other band—FM or AM.

When you cannot store stations you want automatically

Stations with weak signals cannot be detected with this automatic presetting method. To store such a station, use the manual presetting method on page 19.

To preset stations manually—Manual Presetting

On the remote control ONLY:

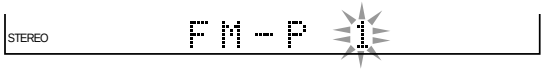
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 2 again.

1 **Tune into a station you want to preset.**

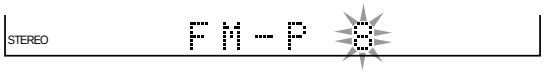
- See “Tuning into a Station” on page 18.

2 **Press SET.**

The preset number appears and starts flashing.



3 **Press the number buttons to select a preset number.**



Ex.: When selecting preset number “8”

Ex.: For preset number 5, press 5.
For preset number 15, press +10, then 5.
For preset number 20, press +10, then 10.
For preset number 30, press +10, +10, then 10.

4 **Press SET again.**

“MEMORY” appears in the main display, and the tuned station in step 1 is stored in the preset number selected in step 3.

- Storing a new station on a used number erases the previously stored one.

When you unplug the AC power cord or if a power failure occurs

The preset stations will be erased in a few days. If this happens, preset the stations again.

Tuning into a Preset Station

On the remote control ONLY:

1 **Press SOURCE repeatedly until FM or AM is selected.**

Ex.: When selecting FM

2 **Press the number buttons to select a preset number.**

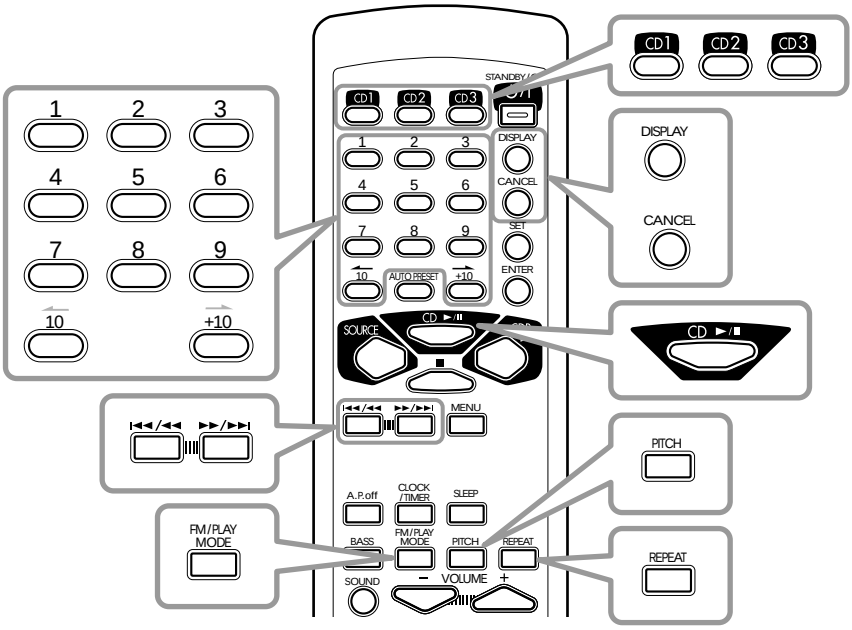
Ex.: When selecting preset number “8”

Ex.: For preset number 5, press 5.
For preset number 15, press +10, then 5.
For preset number 20, press +10, then 10.
For preset number 30, press +10, +10, then 10.

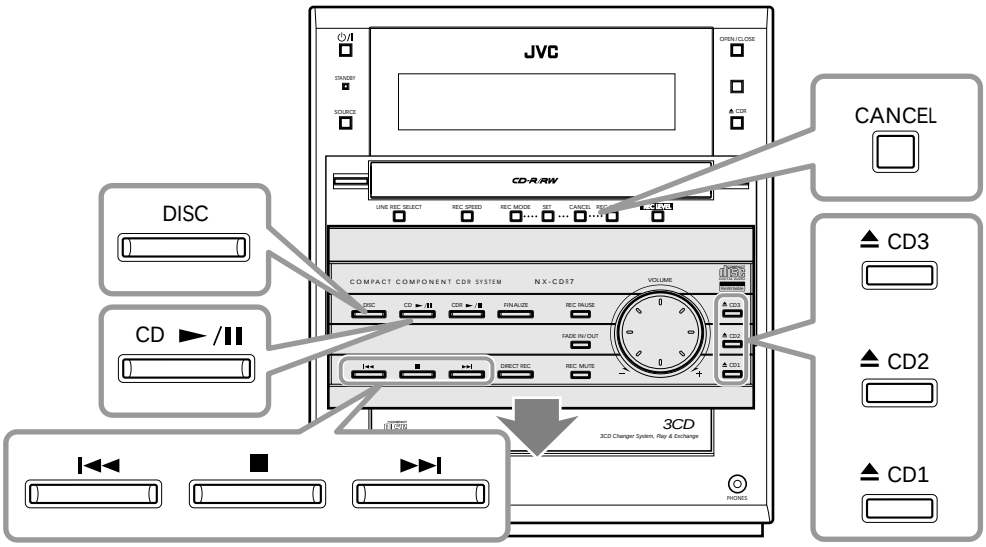
Playing Back Discs on 3-CD Changer

The buttons and controls enlarged in the illustration below are used and explained in this section (pages 21 to 25).

Remote control



Main unit



Press OPEN/CLOSE to move down (or up) the sliding panel.

The built-in 3-CD Changer can play back only finalized CD-Rs/CD-RWs. If you play back **unfinalized** CDs, "UNFINALIZE" appears in the main display.

Loading Discs

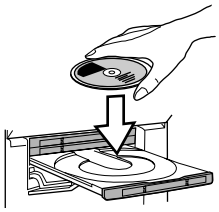
On the unit ONLY:

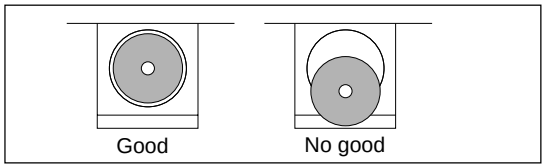
1 Press one of the open/close buttons (▲ CD1, ▲ CD2, and ▲ CD3) for the disc tray you want to load a CD onto.

The unit automatically turns on and the selected disc tray comes out.

- If the sliding panel is left open, it moves up automatically before the disc tray comes out.

2 Place a disc correctly on the circle of the disc tray, with its label side up.





- When using a CD single (8 cm), place it on the inner circle of the disc tray.

3 Press the same open/close button (▲ CD1, ▲ CD2, or ▲ CD3) you have pressed in step 1.

The disc tray closes.

When loading more than one disc continuously

Press the open/close button (▲ CD1, ▲ CD2, or ▲ CD3) for the next tray you want to place a disc onto. The first disc tray automatically closes and the next disc tray comes out.

Playing Back the Entire Discs—Continuous Play

You can play discs continuously.

1 Load discs into 3-CD Changer.

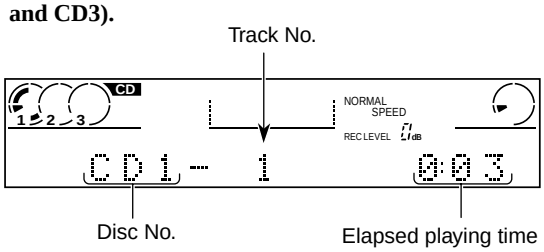
2 Select a disc, and start playback.

On the unit:

1 Press DISC repeatedly to select the disc you want.
2 Press CD ► / II.

On the remote control:

Press one of the disc number buttons (CD1, CD2, and CD3).



CD playback starts from the first track of the selected disc.

- Without selecting the disc number, pressing CD ► / II starts playing back the currently selected CD.

To stop playback for a moment, press CD ► / II.
To resume play, press CD ► / II again.

To stop during play, press ■.

To remove the disc, press the corresponding open/close buttons (▲ CD1, ▲ CD2, or ▲ CD3) on the unit.

Disc playback sequence in 3-CD Changer

When 3 discs are loaded on the disc trays, they are played in one of the following sequences.

- When CD 1 is pressed : CD 1 ⇨ CD 2 ⇨ CD 3 (then stops)
- When CD 2 is pressed : CD 2 ⇨ CD 3 ⇨ CD 1 (then stops)
- When CD 3 is pressed : CD 3 ⇨ CD 1 ⇨ CD 2 (then stops)

* If no disc is on the disc trays, 3-CD Changer skips such an empty tray.

If the current disc is a CD Text

You can change the information in the main display. See "To show the text information recorded on a CD Text" on page 25.

Basic Disc Operations

To exchange a disc during playback of another disc

On the unit ONLY:

Press the open/close buttons (▲ CD1, ▲ CD2, or ▲ CD3) to eject a disc not currently playing.
If discs are exchanged during playback, playback will stop after playing all newly inserted discs.

To start playing a disc during playback of another disc

On the remote control:

Press CD1, CD2 or CD3.
The selected disc play starts.

On the unit:

Press DISC repeatedly.
Each time you press the button, the next disc is selected and playback starts.

To locate a particular point in a track during play

On the remote control:

Press and hold ►► / ►►I or I◄◄ / ◄◄.

On the unit:

Press and hold ►►I or I◄◄.

- ►► / ►►I (►►I): Fast-forwards the tracks.
- I◄◄ / ◄◄ (I◄◄): Fast-reverses the tracks.

To go to another track

On the remote control:

Press ►► / ►►I or I◄◄ / ◄◄ repeatedly.

On the unit:

Press ►►I or I◄◄ repeatedly.

- ►► / ►►I (►►I): Skips to the beginning of the next or succeeding tracks.
- I◄◄ / ◄◄ (I◄◄): Goes back to the beginning of the current or previous tracks.

To go to another track directly using the number buttons

On the remote control ONLY:

Press the number button(s) allows you to start playing the track number you want.

Ex.: For track number 5, press 5.
For track number 15, press +10, then 5.
For track number 20, press +10, then 10.
For track number 32, press +10, +10, +10, then 2.

Programing the Playing Order of the Tracks —Program Play

You can arrange the order in which the tracks play before you start playing. You can program up to 32 tracks.

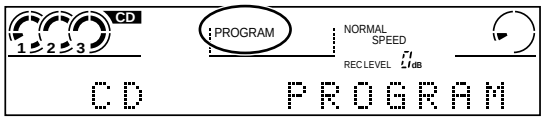
On the remote control ONLY:

1 Load discs into 3-CD Changer.

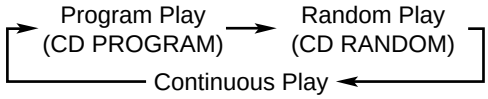
- If the current playing source is not 3-CD Changer, press CD ► / ❚❚, then ■ before going to the next step.

2 Press FM/PLAY MODE repeatedly so that "CD PROGRAM" appears in the main display.

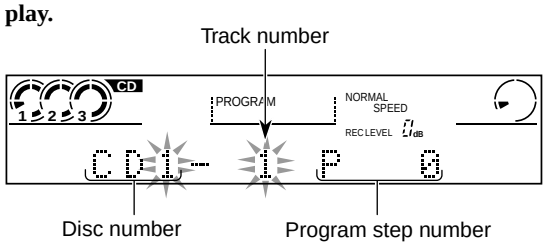
The PROGRAM indicator also lights on the display.



- Each time you press the button, play mode changes as follows:



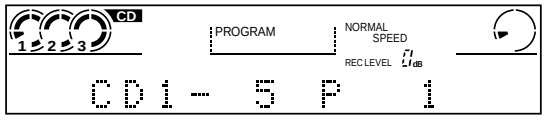
3 Press one of the disc number buttons (CD1, CD2, and CD3) to select the disc number you want to play.



Ex.: Disc number 1 is selected

4 Press the number buttons to select a track from the disc selected in the above step.

- For how to use the number buttons, see "To go to another track directly using the number buttons" on the left column.



Ex.: Track number 5 is selected

Continued

5 **Program other tracks you want.**

- To program tracks from the same disc, repeat step 4.
- To program tracks from a different disc, repeat steps 3 and 4.

6 **Press CD ► / II.**

The tracks are played in the order you have programed. Program Play stops when all the programed tracks are played (unless Repeat Play is activated—see page 24).

To stop during play, press ■.

To exit from Program Play mode, before or after play, press FM/PLAY MODE once or twice so that the unit enters another playback mode (Random Play or Continuous Play).

To check the program contents

Before playing, you can check the program contents by pressing ►► / ►►I or I◄◄ / ◄◄ on the remote control.

- ►► / ►►I : Shows the programed tracks in the programed order.
- I◄◄ / ◄◄ : Shows them in the reverse order.

To modify the program

Before playing, you can erase the last programed track by pressing CANCEL.
Each time you press the button, the last programed track is erased from the program.

- When you eject a disc, the tracks selected from that ejected disc are also erased from the program.
- Turning off the unit also erases the entire program.

To add tracks to the program before playing, simply select disc numbers and track numbers you want to add.

If you try to program a 33rd step

"MEMORY FULL" will appear in the main display.

If your entry is ignored

You have tried to program a track from an empty tray, or a track number that does not exist on the disc (for example, selecting track 14 on a disc that only has 12 tracks). Such entries are ignored.

Playing at Random—Random Play

The tracks of all loaded discs will play at random.

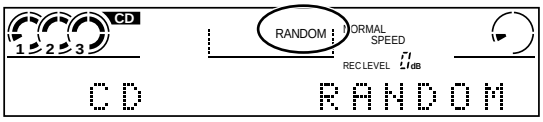
On the remote control ONLY:

1 **Load discs into 3-CD Changer.**

- If the current playing source is not 3-CD Changer, press CD ► / II, then ■ before going to the next step.

2 **Press FM/PLAY MODE repeatedly so that "CD RANDOM" appears in the main display.**

The RANDOM indicator also lights on the display.



- Each time you press the button, play mode changes as follows:

Program Play (CD PROGRAM) → Random Play (CD RANDOM) → Continuous Play →

3 **Press CD ► / II.**

The tracks are played at random.
Random Play stops when all the tracks are played once (unless Repeat Play is activated—see page 24).

To stop during play, press ■.

- Random Play also stops when you open a disc tray.

To exit from Random Play mode, before or after play, press FM/PLAY MODE once or twice so that the unit enters another playback mode (Continuous Play or Program Play).

- Pressing CD1, CD2, or CD3 starts Continuous Play from the first track of the selected disc.
- Pressing one of the number buttons will start Continuous Play from the selected track of the currently selected disc.

Repeating Tracks or Discs—Repeat Play

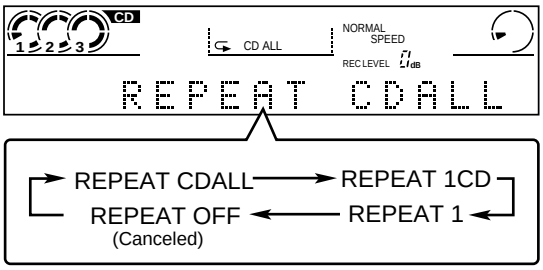
You can have all the discs, the program or the individual track currently playing repeat as many times as you like.

- If an unfinalized CD-R or CD-RW is loaded, it will be skipped and not be played back.

On the remote control ONLY:

Press REPEAT repeatedly during or before playing.

- Each time you press the button, Repeat Play mode changes and appears in the main display as follows:



Ex.: When “REPEAT CDALL” is selected

- **REPEAT CDALL**: Repeats all the tracks on all the discs (continuously or at random), or all the tracks in the program.
- **REPEAT 1CD***: Repeats all the tracks on one disc.
- **REPEAT 1**: Repeats one track.
- **REPEAT OFF**: Cancels Repeat Play.

* REPEAT 1CD is not used for Program Play and Random Play.

Other Convenient Functions

The following functions can be used only for 3-CD Changer.

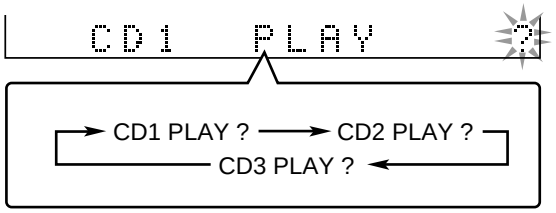
To select the Continuous Play mode for 3-CD Changer

This is not possible when the current source is 3-CD Changer.

On the unit ONLY:

1 Press DISC while listening to a source other than 3-CD Changer.

- Each time you press the button, the following play modes appear in the main display.



- **CD1 PLAY ?**
  : Select this to start playback from the disc on the CD 1 tray.
- **CD2 PLAY ?**
  : Select this to start playback from the disc on the CD 2 tray.
- **CD3 PLAY ?**
  : Select this to start playback from the disc on the CD 3 tray.

2 Press CD ► / II while the selected play mode still remains in the main display.

Now the playback source is changed to 3-CD Changer and Continuous Play starts.

To show the text information recorded on a CD Text

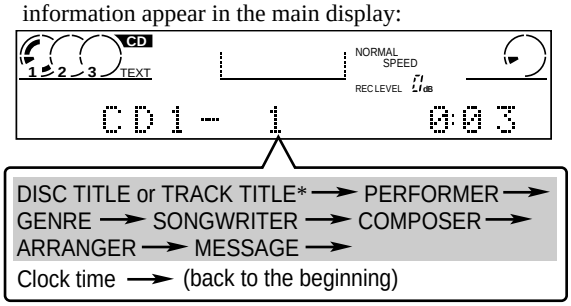
On a CD Text, some information about the disc (its disc title, performer, composer, arranger, etc.—shaded portion in the illustration below) is recorded.

While the currently selected disc in 3 CD Changer is a CD Text, the TEXT indicator lights on the display, and you can show this text information in the main display.

On the remote control ONLY:

Press DISPLAY repeatedly.

- Each time you press the button, the following information appear in the main display:



* Disc title appears before playing, and track title appears while playing.

If there is no data recorded for a particular item

Only recorded information will be shown. “NO DATA” will appear.

To adjust the playback speed

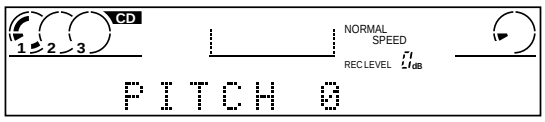
You can change the disc playback speed up to 12% faster or 12% slower when playing back a disc on 3-CD Changer. This function will be useful when you want to enjoy singing along. (Note, however, no microphone can be used when you are using only this unit since no microphone input jack is provided.)

- No signals are output through the 3CD DIGITAL OUT terminal on the rear when playback speed is adjusted (while the PITCH indicator is lit).

On the remote control ONLY:

1 Press PITCH during play.

The current setting appears in the main display—“PITCH 0” (no effect) when shipped from the factory.



2 Press ►► / ►►I or I◄◄ / ◄◄ while the current setting still remains in the main display.

When playback speed (pitch) is adjusted and set to any percentage other than “0,” the PITCH indicator lights on the display.

- ►► / ►►I: to increase the playback speed (pitch) up to 12% faster.
- I◄◄ / ◄◄: to decrease the playback speed (pitch) down to 12% slower.

> - If you press and hold the button, you can continuously change the pitch setting until you release the button.
> - You can also change the pitch setting by pressing ►►I or I◄◄ on the unit repeatedly.

To restore normal speed playback, select “PITCH 0” so that the PITCH indicator goes off.

- Do not forget to restore normal speed playback after you have enjoyed this effect; otherwise, sounds you hear will be strange.
- Turning off the unit also restores normal speed playback.

During CD Synchronized Recording from 3-CD Changer to CD Recorder

Playback speed (pitch) adjustment is automatically canceled temporarily. (The PITCH indicator goes off.)

To prohibit disc ejection—Disc Lock

You can prohibit disc ejection both from 3-CD Changer and from CD Recorder.

> Notice you cannot move the sliding panel while Disc Lock is in use. This means that you cannot use the buttons inside the sliding panel.

On the unit ONLY:

To prohibit disc ejection, press ■ while holding REC PAUSE with the unit set in standby mode. “LOCKED” appears in the main display for a while, and the loaded discs (both in 3-CD Changer and in CD Recorder) and the sliding panel are locked.

If you try to eject the locked discs or open the sliding panel.

“LOCKED” appears to inform you that Disc Lock is in use.

To cancel the prohibition and unlock the discs,

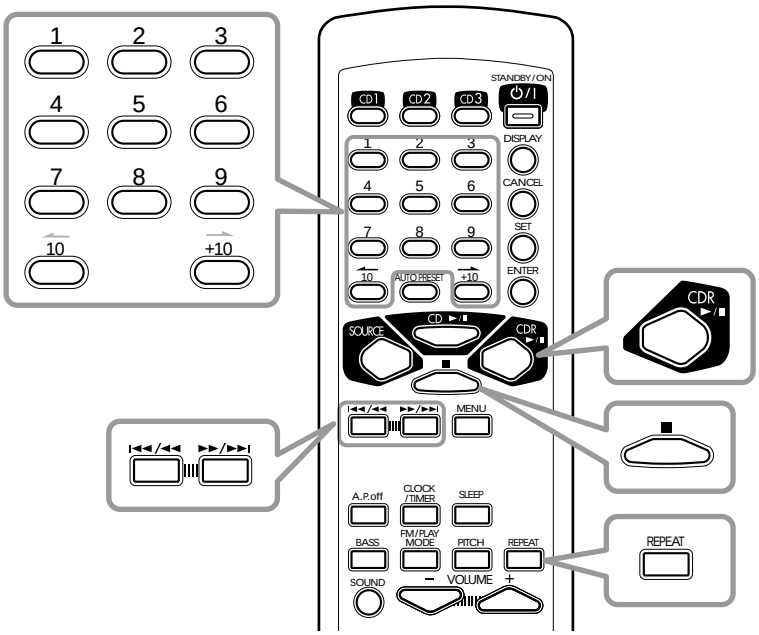
press ■ while holding REC PAUSE with the unit set in standby mode. “UNLOCKED” appears for a while, and the loaded discs (both in 3-CD Changer and in CD Recorder) and the sliding panel are unlocked.

Playing Back a Disc on CD Recorder

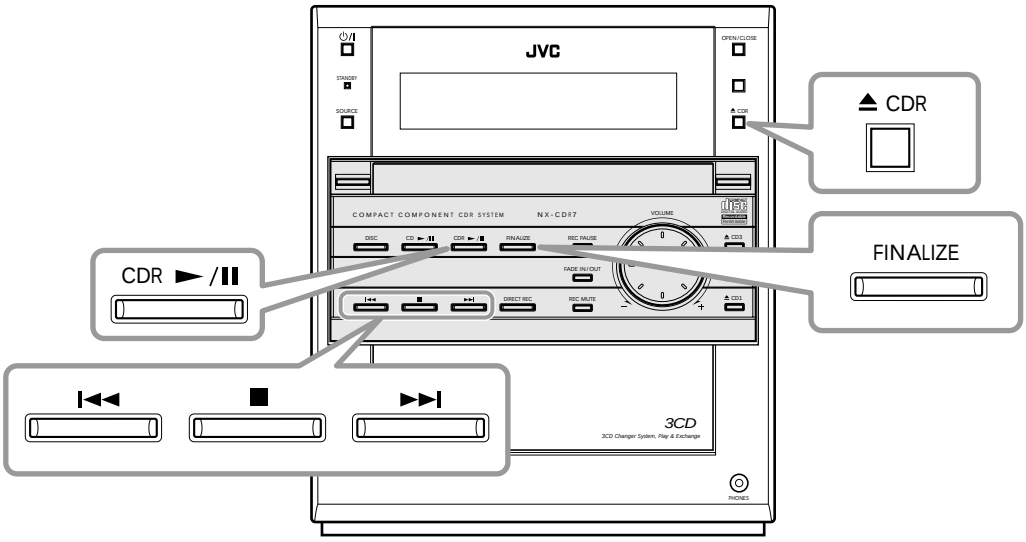
English

The buttons and controls enlarged in the illustration below are used and explained in this section (page 27).

Remote control



Main unit



Notice you cannot use Program Play and Random Play while playing a disc on CD Recorder.

Playing Back a Disc—Normal Play

You can play back both finalized and unfinalized discs on CD Recorder.

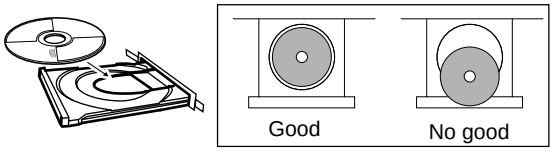
On the unit ONLY:

1 Press ⏏ CDR.

The unit automatically turns on and the CDR disc tray comes out.

- If the sliding panel is closed, it moves down automatically before the CDR disc tray comes out.

2 Place a disc correctly on the circle of the disc tray, with its label side up.

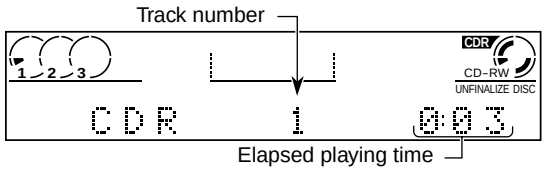


- When using a CD single (8 cm), place it on the inner circle of the disc tray.

3 Press CDR ► / II.

The CDR disc tray also closes and CD Recorder starts playing the loaded disc. The CDR lamps start flashing.

- If you press ⏏ CDR again in this step, the disc tray closes, but playback does not start.



Ex.: When an unfinalized CD-RW is loaded

To close the CDR disc tray, press ⏏ CDR again.

To stop playback for a moment, press CDR ► / II.
To resume play, press CDR ► / II again.

To stop during play, press ■.

To remove the disc, press ⏏ CDR on the unit.

- When you try to eject the unfinalized CD-R or CD-RW, "FINALIZE ?" appears and flashes in the main display.
  If you do not finalize the disc, press ⏏ CDR again.
  If you do finalize the disc, press FINALIZE. (See also "Finalizing a Disc—CD-R/CD-RW" on page 38.)

Basic Disc Operations

To locate a particular point in a track during play

On the remote control:
Press and hold ►► / ►►I or I◄◄ / ◄◄.
On the unit:
Press and hold ►►I or I◄◄.

- ►► / ►►I (►►I): Fast-forwards the tracks.
- I◄◄ / ◄◄ (I◄◄): Fast-reverses the tracks.

To go to another track

On the remote control:
Press ►► / ►►I or I◄◄ / ◄◄ repeatedly.
On the unit:
Press ►►I or I◄◄ repeatedly.

- ►► / ►►I (►►I): Skips to the beginning of the next or succeeding tracks.
- I◄◄ / ◄◄ (I◄◄): Goes back to the beginning of the current or previous tracks.

To go to another track directly using the number buttons

On the remote control ONLY:
Press the number button(s) allows you to start playing the track number you want.

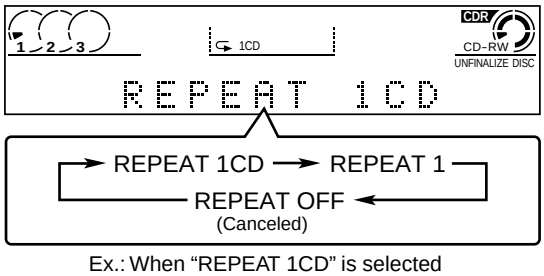
Ex.: For track number 5, press 5.
For track number 15, press +10, then 5.
For track number 20, press +10, then 10.
For track number 32, press +10, +10, +10, then 2.

Repeating Tracks—Repeat Play

You can repeat an individual track or all tracks in a disc many times as you like.

On the remote control ONLY:
Press REPEAT repeatedly during or before playing.

- Each time you press the button, Repeat Play mode changes and appears in the main display as follows:



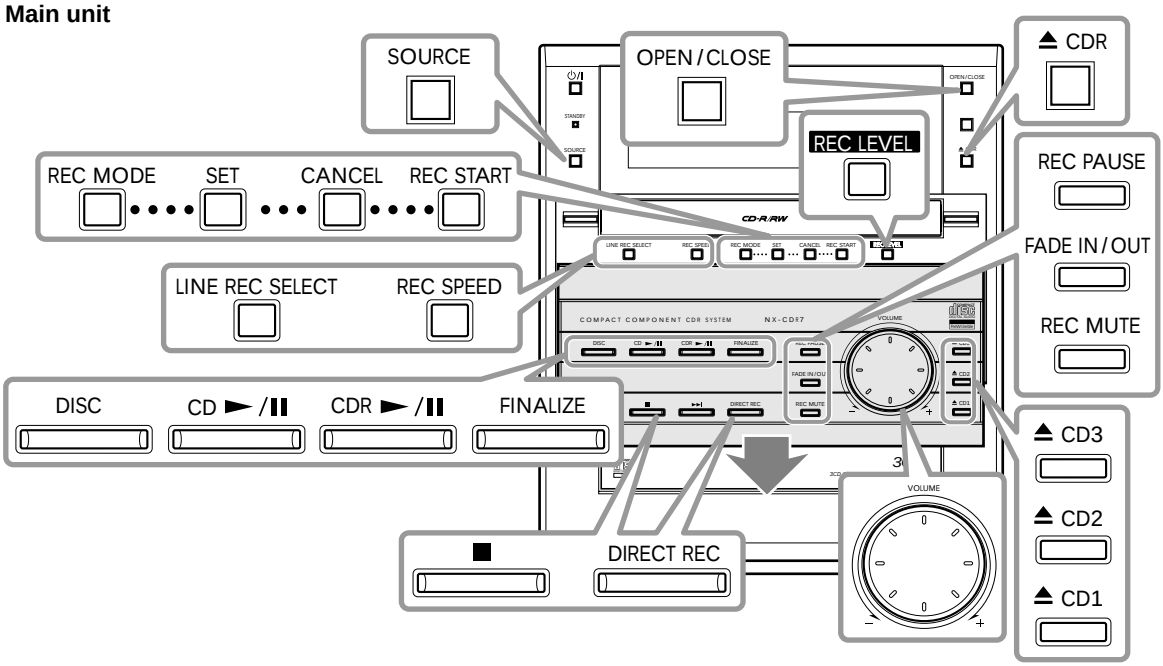
Ex.: When "REPEAT 1CD" is selected

- **REPEAT 1CD**: Repeats all the tracks.
- **REPEAT 1**: Repeats one track.
- **REPEAT OFF**: Cancels Repeat Play.

Recording on a CD-R/CD-RW

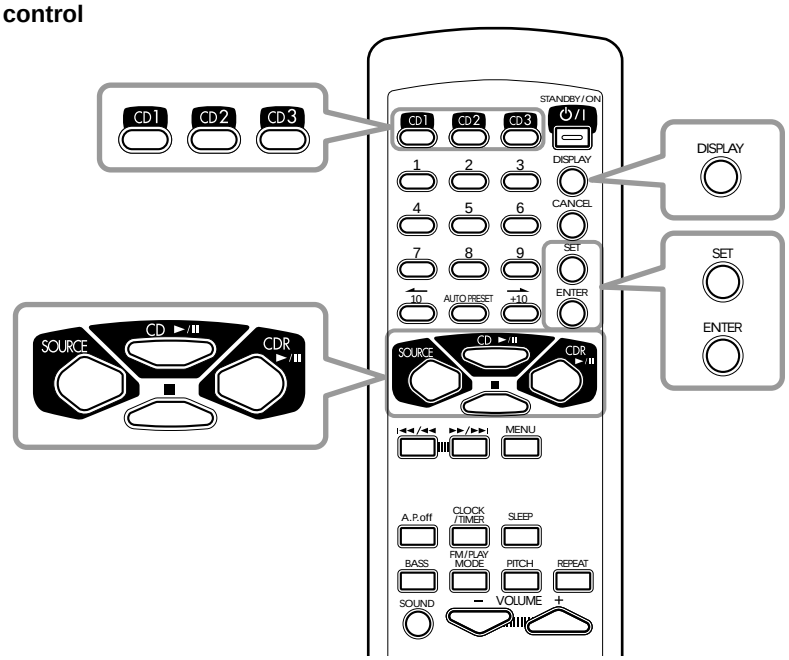
The buttons and controls enlarged in the illustration below are used and explained in this section (pages 29 to 38).
For recording operations, you mainly use the buttons and controls on the unit.

Main unit



Press OPEN/CLOSE to move down (or up) the sliding panel.

Remote control



Continued

Before You Start Recording

- When you record onto a partially recorded unfinalized CD-R or CD-RW, its contents are not erased or overwritten. The recording starts from the point following the last recorded track of the disc.
  For CD-RW only: If you want to record on such a CD-RW from the beginning, you have to erase its contents first (see "Erasing All Tracks (Only for CD-RW)" on page 43). (You cannot erase the contents recorded on a CD-R.)
- When the data recordable memory area of an CD-R or CD-RW becomes fully while recording, recording will stop automatically.

Optimum Power Control (OPC)

When an unfinalized CD-R or CD-RW is loaded in CD Recorder, this CD Recorder automatically checks the disc condition and automatically adjusts the laser output level to obtain optimum recording on the disc before recording.

While OPC is being performed (for about 10 seconds), "UPDATE OPC" flashes in the main display (and the REC indicator also lights on the display).

If "OPC ERROR" appears in the main display

The disc inserted cannot be used for recording.

Sampling frequency rate converter

The sampling frequency rate converter built in the CD Recorder allows you to record a digital source having sampling frequency (fs) of 32 kHz, 44.1 kHz, or 48 kHz.

- When you can record dts* CD or HDCD® ** signals coming through the LINE DIGITAL IN terminal, bypass the built-in sampling frequency rate converter.

To bypass the sampling frequency rate converter, see "Turning On or Off Sampling Frequency Rate Converter" on page 41.

* dts is a trademark of Digital Theater Systems, Inc.
**HDCD® is a registered trademark of Pacific Microsonic, Inc.

Auto track space

While recording from the 3-CD Changer onto CD Recorder, you can use this function.
When this function is turned on, CD Recorder automatically makes 2-second blank portion at the beginning of each track on a recorded disc.

To use this function for your recording, see "Separating Recorded Tracks Automatically—Auto Track Space" on page 41.

Auto track-marking

Whenever you turn on the unit, auto track-marking is activated. (The AUTO TRACK indicator will light on the display.)

When auto track-marking is activated

- **Recording from 3-CD Changer:**
  Track marks are recorded automatically at the points where the tracks change.
- **Recording an analog source—FM, AM, and external component connected to the LINE IN jacks:**
  No track mark is recorded on a disc. This means that, when playing this disc, a CD player will regard the entire recording as one track. However, if there is a blank of 3 seconds or more, CD Recorder will consider it as a blank separating 2 tracks and consequently put a track mark.
- **Recording through the LINE DIGITAL IN terminal:**
  – If the playback source DOES have track marks recorded, they are recorded automatically at the points where the tracks change.
  – If the playback source DOES NOT have track marks recorded, this unit functions in the same way for recording an analog source.

To cancel auto track-marking and use manual track-marking, see "Recording Track Marks Manually—Manual Track-Marking" on page 40.

Available recording modes—REC MODE

CD Recorder provides a variety of the recording methods—called “Recording Modes.”
Available recording modes vary according to the playback source and its playback status.

By pressing REC MODE after all preparation for recording is finished, you can select and use the following recording modes.

■ **When the source is 3-CD Changer —CD Synchronized Recording:**

- CD Direct Recording (with or without finalization)—See page 33.
- First Track Recording—See page 35.
- Listening Edit Recording (with or without finalization)—See page 36.

> During play, you can only perform a single track recording—See page 38.

■ **When the source is the external component**

- Sound Synchronized Recording—See page 37.

> When recording is stopped or finished, CD Synchronized Recording and Sound Synchronized Recording are canceled automatically.

Digital recording or analog recording?

CD Recorder automatically selects appropriate recording—either digital or analog—during CD Synchronized Recording. When digital source is selected as the playback sound, it will be recorded digitally unless it is a first-generation digital copy (see “SCMS (Serial Copy Management System)” on page 51). In this case, CD Recorder selects analog recording.

During CD Synchronized Recording

- Repeat Play will be canceled automatically.
- Auto track-marking is activated automatically.

Other recording methods

You can also use the REC PAUSE button to perform the recording. See “Recording Any Sound Source—Standard Recording” on page 31.

High-Speed Recording

When using some of the Recording Modes mentioned on the left column, this unit allows you to change the recording speed—normal speed and high speed.
For CD-R, high speed means 4 times normal speed and for CD-RW, 2 times normal speed.

When you select high speed for your recording, you cannot listen to the played-back sounds.

During high-speed recording

You cannot listen to any source, and therefore, cannot adjust the volume level. (“CANNOT LISTEN” will flash in the main display if you try to do.)

Finalization

This is the final process in recording on a CD-R or CD-RW. “Finalizing a disc” means writing the TOC (Table of Contents) on the recorded disc.
Only after this process is completed, a recorded CD-R or CD-RW can be played back on a CD player compatible with CD-R/CD-RW.

- It is also recommended to finalize a disc in order to play it back on 3-CD Changer.

To finalize a disc, see “Finalizing a Disc—CD-R/CD-RW” on page 38.

Recording Any Sound Source —Standard Recording

The following recording method can be applied to any sound source.

On the unit ONLY:

1 Select the source to record from.

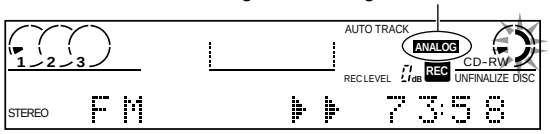
- ***When recording from 3-CD Changer:***
  – Press CD ► / ❚❚, then ■. To select a disc, press DISC repeatedly, then ■.
  You can also use the remote control. When using it, press CD1, CD2, or CD3, then ■.
  – If the current play mode is either Program Play or Random Play, press FM/PLAY MODE on the remote control to select Continuous Play.
- ***When recording an FM/AM broadcast:***
  Press SOURCE repeatedly to select FM or AM, then tune into a station you want.
- ***When recording from external equipment:***
  1 Press SOURCE repeatedly to select "LINE."
  2 Press LINE REC SELECT (inside the sliding panel) repeatedly to select either "ANALOG IN" or "DIGITAL IN."
  ANALOG IN: To record through the LINE IN jacks (analog-to-digital recording).
  DIGITAL IN: To record through the LINE DIGITAL IN terminal (digital-to-digital recording).

2 Insert a recordable CD-R or CD-RW on the CDR disc tray.

3 Press REC PAUSE so that CD Recorder enters recording pause mode.
The REC indicator starts flashing on the display, and the CDR lamps also start flashing.

- If OPC (see page 29) is being performed, "UPDATE OPC" flashes first in the main display.

Selected recording method—digital or analog—is shown here.



Ex.: When recording an FM station

4 Adjust the recording input level if necessary.
See "To adjust the recording input level" on page 32.

5 Press CDR ► / ❚❚.
Recording starts.

6 When recording from 3-CD Changer:
Press CD ► / ❚❚.

- Recording stops when a selected disc is recorded.

When recording from the external component:
Start playback.

- For details, see the manual supplied with your component.

To stop recording for a moment, press REC PAUSE (or CDR ► / ❚❚) again.
To resume recording, press CDR ► / ❚❚ again. (A track mark is recorded when you resume recording.)

To stop recording, press ■.

- When recording from 3-CD Changer, both 3-CD Changer and CD Recorder stop.

To remove the recorded disc, press ⏏ CDR.
"FINALIZE ?" flashes in the main display for a while.

- If you do finalize the disc, press FINALIZE.
  Remember once you finalize a CD-R, no further recording can be made on the disc. (For more details, see "Finalizing a Disc—CD-R/CD-RW" on page 38.)
- If you do not finalize the disc, press ⏏ CDR again.

To fade in and fade out the recording

You can fade in and fade out the recording—for about 5 seconds—when using Standard Recording.

To start recording by fading in, press FADE IN/OUT on the unit in step 5 of the Standard Recording procedure (in other words, while CD Recorder is in recording pause).

To pause recording by fading out, press FADE IN/OUT (instead of the ■ button) when you want to pause the recording.
To stop recording, press ■.

To adjust the recording input level

You can adjust the recording input level.

Once adjustment is made, it is memorized, and will be recalled when you record any source on CD Recorder, using any recording method (except when high speed recording is selected).

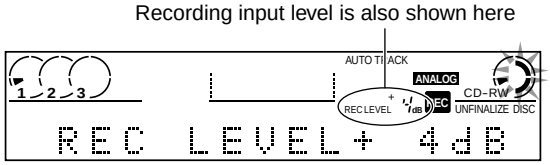
While adjusting the recording input level, the sounds through the speakers and headphones also change so that you can check the difference by your own ears.

<u>On the unit ONLY:</u>

1 While CD Recorder is in recording pause mode, press REC LEVEL (inside the sliding panel).
Now the VOLUME control (and VOLUME +/– on the remote) works to adjust the recording level.

2 Turn the VOLUME control while listening to the playback sound.
- Adjust the recording input level so that the OVER indicator never lights.

Recording input level is also shown here



- You can adjust the recording input level within the range of +12 dB to –12 dB in 2 dB intervals. Normally set it to 0 dB (initial setting at factory).

3 Press REC LEVEL again to finish the adjustment.
Now the VOLUME control (and VOLUME +/– on the remote) works as usual to adjust the volume level.

4 Press ■ to cancel recording pause mode.
- If you press CDR ► / **II**, standard recording (see page 31) will start.

When you unplug the AC power cord or if a power failure occurs

Input level adjustment will be erased in a few days. If this happens, adjust the input level again.

To make a silent portion in your recording

You can record a 4-second silence when using Standard Recording. This is convenient when recording tracks from many discs.
- This function can be used both for digital and analog recording.

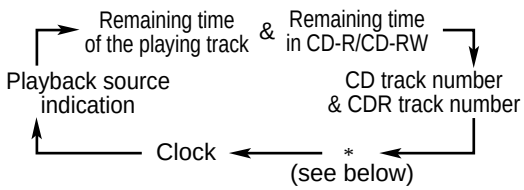
To make a silent portion in your recording, press REC MUTE on the unit while recording.
Recording enters recording pause mode after recording a 4-second silence. (You can also make a silent portion as long as you want by holding the button.)
To resume recording, press CDR ► / **II**. (A track mark is recorded when you resume recording.)

To change the display information while recording

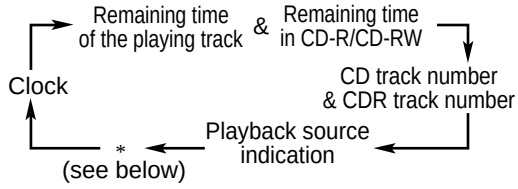
You can change the information in the main display.
- For display information during playback, see “Changing the Display Information” on page 15.

<u>On the remote control ONLY:</u>
Press DISPLAY repeatedly.
- Each time you press the button, the information in the main display changes as follows:

■ **When the source is 3-CD Changer:**
- During Standard Recording

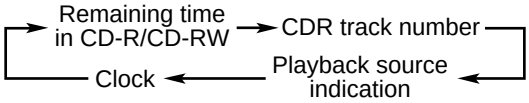


- During CD Synchronized Recording (see page 33)



* When the current playback source is a CD Text, CD Text information will be shown. See “To show the text information recorded on a CD Text” on page 25.

■ **When the source is other than 3-CD Changer:**



Continued

Recording from 3-CD Changer —CD Synchronized Recording

You have three methods to record from 3-CD Changer to CD Recorder.
Using these synchronized recording methods, you can start and playback and recording at the same time.

- **CD Direct Recording**—Records a disc in 3-CD Changer (or the program you have made)—with or without finalization.
- **First Track Recording**—Records the first track of each disc in 3-CD Changer (see page 35).
- **Listening Edit Recording**—Records only tracks you select while playing back discs in 3-CD Changer—with or without finalization (see page 36).

Before starting any of the above recording, adjust the recording input level if necessary.
See "To adjust the recording input level" on page 32.

CD Direct Recording

CD Direct Recording allows you to easily record a disc in 3-CD Changer onto a CD-R or CD-RW in CD Recorder.

■ Using the DIRECT REC button

On the unit ONLY:

1 Prepare discs in 3-CD Changer.

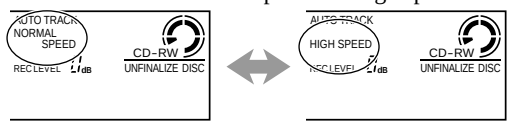
- If the current playing source is not 3-CD changer, press CD ► / II, then ■. To select a disc, press DISC repeatedly, then ■.
  You can also use the remote control. When using it, press CD1, CD2, or CD3, then ■.

  You can make a program (see page 22) if you want. (But you cannot select Random Play.)

2 Insert a recordable CD-R or CD-RW on the CDR disc tray.

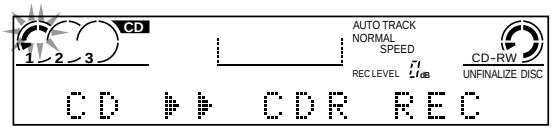
3 Press REC SPEED (inside the sliding panel) if necessary.

- Each time you press the button, recording speed alternates between normal speed and high speed*.

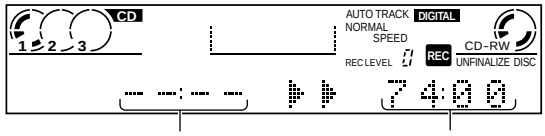


* For CD-R, 4 times normal speed; for CD-RW, 2 times normal speed.
When high speed is selected, recording input level is reset to "0" temporarily, and will not affect the recording.

4 Press DIRECT REC.



- If OPC (see page 29) is being performed, "UPDATE OPC" flashes first in the main display, then recording starts.



Remaining time of the currently playing track

Remaining time in the CD-R/CD-RW

Recording stops when a selected disc (or a program) is recorded.

- Both 3-CD Changer and CD Recorder stop automatically.

To confirm the recording contents, see "To change the display information while recording" on page 32.

To stop recording, press ■. "STOP DUBBING" flashes for a while.

- Both 3-CD Changer and CD Recorder stop automatically.

To remove the recorded disc, press ▲ CDR.
"FINALIZE ?" flashes in the main display for a while.

- If you do finalize the disc, press FINALIZE.
  Remember once you finalize a CD-R, no further recording can be made on the disc. (For more details, see "Finalizing a Disc—CD-R/CD-RW" on page 38.)
- If you do not finalize the disc, press ▲ CDR again.

If "SHORT REM. OK ?" appears when you press DIRECT REC

There is not enough remaining time left on the recordable disc. Eject and change a disc or press DIRECT REC one more time to start recording anyway (the entire source disc cannot be recorded in this case).

If you press DIRECT REC while listening to any other source than 3-CD Changer (and CD Recorder)

Recording will also start if a recordable disc is on the CDR disc tray. However, recording will not stop until you press ■.

During CD Direct Recording

Repeat Play will be canceled automatically.

■ Using the REC MODE button

On the unit ONLY:

1 Prepare discs in 3-CD Changer.

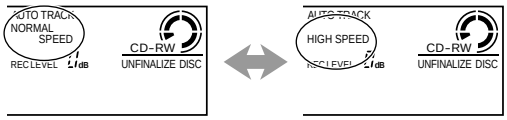
- If the current playing source is not 3-CD changer, press CD ► / ❚❚, then ■. To select a disc, press DISC repeatedly, then ■.
  You can also use the remote control. When using it, press CD1, CD2, or CD3, then ■.

> You can make a program (see page 22) if you want. (But you cannot select Random Play.)

2 Insert a recordable CD-R or CD-RW on the CDR disc tray.

3 Press REC SPEED (inside the sliding panel) if necessary.

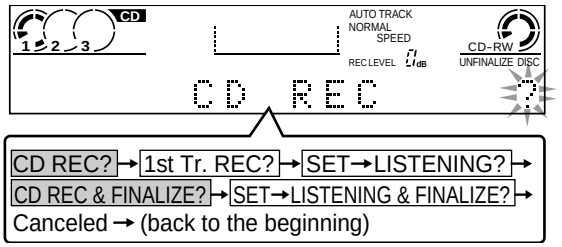
- Each time you press the button, recording speed alternates between normal speed and high speed*.



* For CD-R, 4 times normal speed; for CD-RW, 2 times normal speed.
When high speed is selected, recording input level is reset to "0" temporarily, and will not affect the recording.

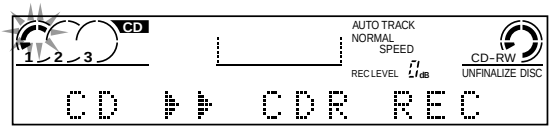
4 Press REC MODE (inside the sliding panel) to select "CD REC?" or "CD REC & FINALIZE ?"

- Each time you press the button, recording modes change as follows:

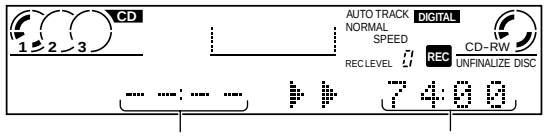


- **CD REC ?**: Select this to perform CD Direct Recording.
- **CD REC & FINALIZE ?**: Select this to automatically finalize the disc after recording.

5 Press REC START (inside the sliding panel).



- If OPC (see page 29) is being performed, "UPDATE OPC" flashes first in the main display, then recording starts.



Remaining time of the currently playing track

Remaining time in the CD-R/CD-RW

Recording stops when a selected disc (or a program) is recorded.

- Both 3-CD Changer and CD Recorder stop automatically.

To confirm the recording contents, see "To change the display information while recording" on page 32.

To stop recording, press ■. "STOP DUBBING" flashes for a while. (In this case, the disc will not be finalized even if you have selected "CD REC & FINALIZE ?" in step 4.)

- Both 3-CD Changer and CD Recorder stop automatically.

To remove the recorded disc, press ⏏ CDR.
"FINALIZE ?" flashes in the main display for a while if you have selected "CD REC?" in step 4.

- If you do finalize the disc, press FINALIZE.
  Remember once you finalize a CD-R, no further recording can be made on the disc. (For more details, see "Finalizing a Disc—CD-R/CD-RW" on page 38.)
- If you do not finalize the disc, press ⏏ CDR again.

If "SHORT REM. OK ?" appears when you press REC START

There is not enough remaining time left on the recordable disc. Eject and change a disc or press REC START one more time to start recording anyway (the entire source disc cannot be recorded in this case).

During CD Direct Recording

Repeat Play will be canceled automatically.

Continued

First Track Recording

First Track Recording allows you to record the first track of each loaded disc in 3-CD Changer.
You can, for example, make a directory of all your best CDs.

■ Using the REC MODE button ONLY

On the unit ONLY:

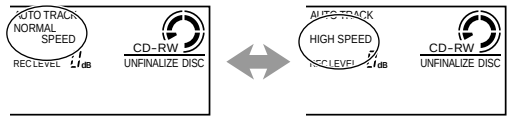
1 Prepare discs in 3-CD Changer.

- If the current playing source is not 3-CD changer, press CD ► / II, then ■. To select a disc, press DISC repeatedly, then ■.
  You can also use the remote control. When using it, press CD1, CD2, or CD3, then ■.
- If the current play mode is either Program Play or Random Play, press FM/PLAY MODE on the remote control to select Continuous Play.

2 Insert a recordable CD-R or CD-RW on the CDR disc tray.

3 Press REC SPEED (inside the sliding panel) if necessary.

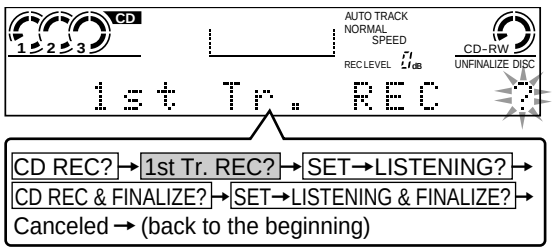
- Each time you press the button, recording speed alternates between normal speed and high speed*.



* For CD-R, 4 times normal speed; for CD-RW, 2 times normal speed.
When high speed is selected, recording input level is reset to “0” temporarily, and will not affect the recording.

4 Press REC MODE (inside the sliding panel) to select “1st Tr. REC?”

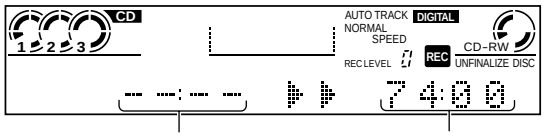
- Each time you press the button, recording modes change as follows:



CD REC? → 1st Tr. REC? → SET→LISTENING? →
CD REC & FINALIZE? → SET→LISTENING & FINALIZE? →
Canceled → (back to the beginning)

5 Press REC START (inside the sliding panel) .

- If OPC (see page 29) is being performed, “UPDATE OPC” flashes first in the main display, then recording starts.



Remaining time of the currently playing track

Remaining time in the CD-R/CD-RW

After the first track of the disc on the CD1 tray is recorded, the first track of the CD on the CD2 tray will be recorded. (If no disc is on the CD tray, it will be skipped.)
After the first tracks of all loaded discs are recorded, First Track Recording stops.

6 Repeat steps 1, 4, and 5 to continuously record more tracks using First Track Recording.

To confirm the recording contents, see “To change the display information while recording” on page 32.

To stop recording, press ■. “STOP DUBBING” flashes for a while.

- Both 3-CD Changer and CD Recorder stop automatically.

To remove the recorded disc, press ▲ CDR.
“FINALIZE ?” flashes in the main display for a while.

- If you do finalize the disc, press FINALIZE.
  Remember once you finalize a CD-R, no further recording can be made on the disc. (For more details, see “Finalizing a Disc—CD-R/CD-RW” on page 38.)
- If you do not finalize the disc, press ▲ CDR again.

If “SHORT REM. OK ?” appears when you press REC START

There is not enough remaining time left on the recordable disc. Eject and change a disc or press REC START one more time to start recording anyway (the entire track cannot be recorded in this case).

During First Track Recording

Repeat Play will be canceled automatically.

Listening Edit Recording

Listening Edit Recording allows you to make a program while listening and checking each track of the loaded discs (up to 3 discs) in 3-CD Changer, then to start recording the program.

- You can program up to 32 tracks.

■ Using the REC MODE button ONLY

On the unit ONLY:

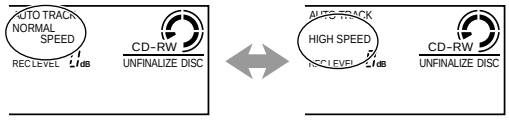
1 Prepare discs in 3-CD Changer.

- If the current playing source is not 3-CD changer, press CD ► / II, then ■. To select a disc, press DISC repeatedly, then ■.
  You can also use the remote control. When using it, press CD1, CD2, or CD3, then ■.
- If the current play mode is either Program Play or Random Play, press FM/PLAY MODE on the remote control to select Continuous Play.

2 Insert a recordable CD-R or CD-RW on the CDR disc tray.

3 Press REC SPEED (inside the sliding panel) if necessary.

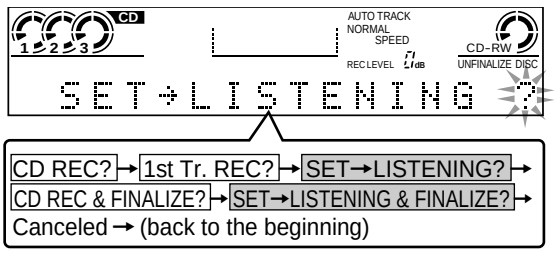
- Each time you press the button, recording speed alternates between normal speed and high speed*.



* For CD-R, 4 times normal speed; for CD-RW, 2 times normal speed.
When high speed is selected, recording input level is reset to “0” temporarily, and will not affect the recording.

4 Press REC MODE (inside the sliding panel) to select “SET→LISTENING?” or “SET→LISTENING & FINALIZE ?”

- Each time you press the button, recording modes change as follows:



- **SET→LISTENING ?**: Select this to perform Listening Edit Recording.
- **SET→LISTENING & FINALIZE ?**: Select this to automatically finalize the disc after recording.

5 Press SET (inside the sliding panel).

3-CD Changer starts playing.

- Playback starts from the currently selected disc if two or three discs are loaded.

6 Decide if you want to include the current track in the program or to skip it.

- **To include the current playing track in the program,** press SET.
  The current playing track is programed and the next track starts playing. (After the last track of a disc is programed, the first track of the next disc starts playing.)
- **To skip the current playing track,** press CANCEL.
  The current playing track is not programed and the next track starts playing.

> If you do not press either button while the current track is playing, 3-CD Changer will skip the track and play the next track.

7 Repeat step 6 to program other tracks.

When you finish checking all tracks or if there is no more remaining time on the recordable CD-R or CD-RW, Listening Edit Recording starts automatically.

- If the remaining time of the CD-R or CD-RW becomes short, CD Recorder will search for a track fitting into the remaining time. To include the track found in the program, press SET. To find another, press CANCEL.

To stop during editing process and start recording, press REC START.

To confirm the recording contents, see “To change the display information while recording” on page 32.

To stop recording, press ■. “STOP DUBBING” flashes for a while. (In this case, the disc will not be finalized even if you have selected “SET→LISTENING & FINALIZE ?” in step 4.)

- Both 3-CD Changer and CD Recorder stop automatically.

To remove the recorded disc, press ⏏ CDR.
“FINALIZE ?” flashes in the main display for a while if you have selected “SET→LISTENING?” in step 4.

- If you do finalize the disc, press FINALIZE.
  Remember once you finalize a CD-R, no further recording can be made on the disc. (For more details, see “Finalizing a Disc—CD-R/CD-RW” on page 38.)
- If you do not finalize the disc, press ⏏ CDR again.

notes **During Listening Edit Recording**

Repeat Play will be canceled automatically.

Continued

Recording the External Components —Sound Synchronized Recording

With this recording method, you can start recording automatically when the source sound comes into this unit through the LINE IN jacks or the LINE DIGITAL IN terminal.

Observe the following when recording from external component through the LINE DIGITAL IN terminal.
- Make sure that it is connected correctly.
- Make sure to turn it on, and leave it turned on while recording.

- Sound Synchronized Recording will stop automatically if no sound comes in for more than 30 seconds.

On the unit ONLY:

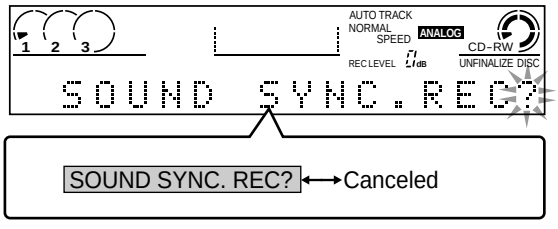
Before recording, adjust the recording input level if necessary.
See "To adjust the recording input level" on page 32.

1 Insert a recordable CD-R or CD-RW on the CDR disc tray.

2 Press SOURCE repeatedly until "LINE" appears in the main display.

3 Press LINE REC SELECT (inside the sliding panel) repeatedly to select either "ANALOG IN" or "DIGITAL IN."
- **ANALOG IN**: Select this to record sounds through the LINE IN jacks. The ANALOG indicator lights on the display (analog-to-digital recording).
- **DIGITAL IN**: Select this to record sounds through the LINE DIGITAL IN terminal. The DIGITAL indicator lights on the display (digital-to-digital recording).

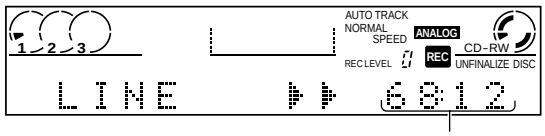
4 Press REC MODE (inside the sliding panel) to select "SOUND SYNC. REC?"
- Each time you press the button, Sound Synchronized Recording turns on and off.



5 Press REC START (inside the sliding panel).
The REC indicator flashes on the display for a while.

Ex.: When "ANALOG IN" is selected in step 3

6 Start playback on the selected external component.
Recording starts automatically when the sound signals come in.



Remaining time in the CD-R/CD-RW

To confirm the recording contents, see "To change the display information while recording" on page 32.

To stop recording, press ■. "STOP DUBBING" flashes for a while.
- Both 3-CD Changer and CD Recorder stop automatically.

To remove the recorded disc, press ⏏ CDR.
"FINALIZE ?" flashes in the main display for a while.
- If you do finalize the disc, press FINALIZE. Remember once you finalize a CD-R, no further recording can be made on the disc. (For more details, see "Finalizing a Disc—CD-R/CD-RW" on page 38.)
- If you do not finalize the disc, press ⏏ CDR again.

If Sound Synchronized Recording do not work correctly when "ANALOG IN" is selected as the input terminal

Use the Standard Recording method (see page 31).
Sound Synchronized Recording starts automatically when this unit detects sound signals coming in. This means that, if sound signal is too weak for this unit to detect, Sound Synchronized Recording will not start (or will stop even while the source is being played).

When recording from a DAT deck using Sound Synchronized Recording

Two track marks may be recorded at the beginning of the recording. If this occurs, record a skip mark so that either track mark will be ignored during playback. (See page 42.)

Recording a Single Track during Play

You can record the current track while playing back a disc on 3-CD changer.

- If a recordable disc is not loaded, “CDR NO DISC” appears in the main display. Insert a recordable CD-R or CD-RW.

■ Using the DIRECT REC button

On the unit ONLY:

Press DIRECT REC while playing back or pausing a track you want to record.

Playback of that track is stopped, and the same track starts playing from the beginning again. This time, CD Recorder starts recording the track.

■ Using the REC MODE button

On the unit ONLY:

1 **Press REC MODE (inside the sliding panel) repeatedly, while playing back or pausing a track you want to record until “1Tr. REC ?” or “AUTO LEVEL CONTROL REC ?” appears in the main display.**

- You cannot select “AUTO LEVEL CONTROL REC ?” when high-speed recording is selected. If this happens, press REC SPEED once to select normal speed recording.

1Tr. REC ?:
Select this to record the current track **without** input level adjustment.

AUTO LEVEL CONTROL REC ?:
Select this to record the current track **with** input level adjustment.

2 **Press REC START (inside the sliding panel).**

- **When “1Tr. REC ?” is selected:** Playback of that track is stopped, and the same track starts playing from the beginning again. This time, CD Recorder starts recording the track.
- **When “AUTO LEVEL CONTROL REC ?” is selected:** Playback of that track is stopped, and the same track starts playing from the beginning again. In the first playback, CD Recorder checks the recording condition of the track and adjusts the recording level without recording. (“LEVEL ADJUST” flashes in the main display.)
  Then when the second playback starts, CD Recorder starts recording the track.

After the track is recorded, both 3-CD Changer and CD Recorder stop.

Finalizing a Disc—CD-R/CD-RW

Finalization is the final process in recording on a CD-R or CD-RW. “Finalizing a disc” means writing the TOC (Table of Contents) on the recorded disc.
Only after this process is completed, a recorded CD-R or CD-RW can be played back on a CD player compatible with CD-R/CD-RW.

Before you start....

- Once a CD-R has been finalized, no further recording can be made on the disc.
- If you unplug the power cord or if a power failure occurs during finalization process, recorded data will be lost and the disc may not be utilized any more.

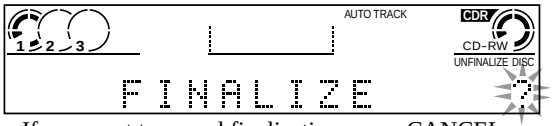
On the unit ONLY:

1 **Insert a disc you want to finalize on the CDR disc tray.**

- If a disc is being played on 3-CD Changer, press ■ to stop playback.

2 **Press FINALIZE.**

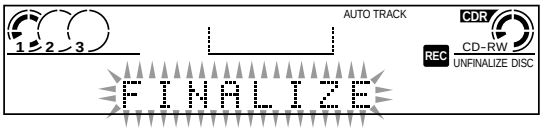
“FINALIZE ?” appears in the main display.



- If you want to cancel finalization, press CANCEL.

3 **Press FINALIZE again to finalize the disc.**

The REC indicator lights and “FINALIZE” starts flashing during finalization.



- The finalization process requires about a few minutes to complete (when finalized, the REC indicator goes off and “FINALIZE” stops flashing and goes off).

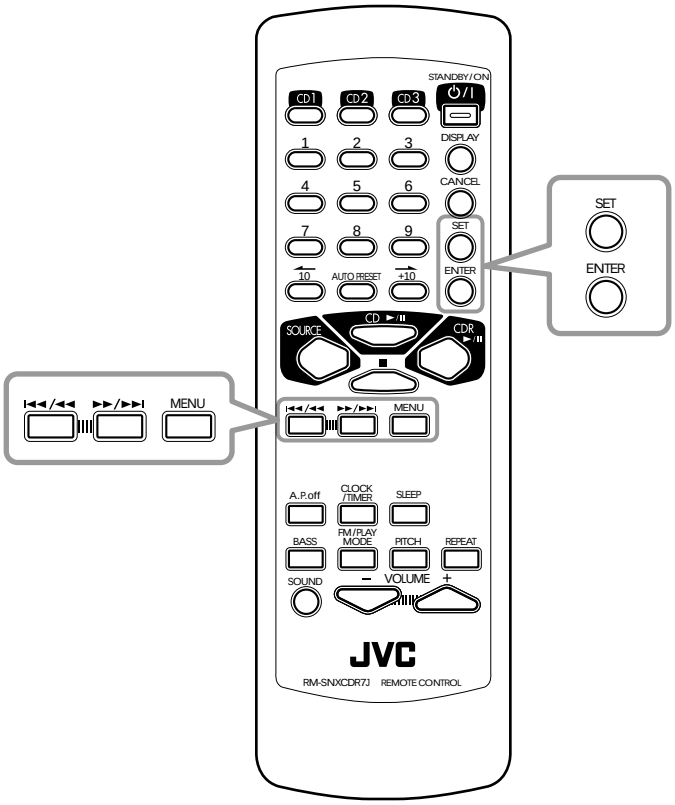
To unfinalize a CD-RW, see “Unfinalizing a Disc (Only for CD-RW)” on page 43.

English

Other Convenient CDR Functions

The buttons and controls enlarged in the illustration below are used and explained in this section (pages 40 to 43).

Remote control



You cannot use the buttons and controls on the unit.
Use only the remote control.

By pressing MENU, you can use (or cancel) the following convenient CD Recorder functions:

AUTO TRACK:	Selects either auto-track marking or manual track marking (see the right column.)
TRACK SPACE:	Automatically places a 2-second blank space at the beginning of each track on a recorded disc (see page 41).
CONVERTER:	Turns on or off the built-in sampling frequency rate converter (see page 41).
TRACK SKIP:	Records a skip mark to an unwanted track so that it will be skipped (ignored as if it does not exist) during play (see page 42).
TRACK ERASE:	Erases the unwanted tracks on a CD-RW (see page 42).
DISC ERASE:	Erases all the recorded tracks on a CD-RW (see page 43).
UNFINALIZE:	Erases the TOC (Table of Contents) of a finalized CD-RW (see page 43).

Before using the following functions explained in this section, make sure of the following.
- **The following procedures are only possible when CD Recorder is selected as the source and playback is not started.**
- To stop any time during the following procedures, press CANCEL.

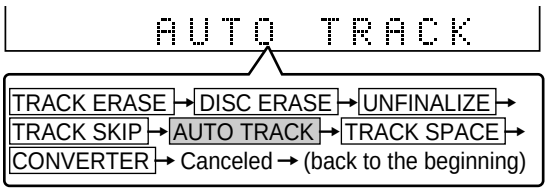
Recording Track Marks Manually —Manual Track-Marking

When auto track-marking is activated (initial setting at the factory), track marks are recorded automatically (see "Auto track-marking" on page 29 for more details).

To cancel auto-track marking and use manual track marking, follow the procedure below.

On the remote control ONLY:

1 **Press MENU repeatedly until "AUTO TRACK" appears in the main display.**
- Each time you press the button, the following menu items appear as follows:


AUTO TRACK
TRACK ERASE → DISC ERASE → UNFINALIZE →
TRACK SKIP → AUTO TRACK → TRACK SPACE →
CONVERTER → Canceled → (back to the beginning)

2 **Press SET.**
The current setting for auto-track marking appears.

Ex.: When auto-track marking is activated (initial setting)

3 **Press ►► / ►►I or I◄◄ / ◄◄ to select "AUTO TRACK OFF" then press ENTER.**
The AUTO TRACK indicator goes off from the display, and auto track-marking is canceled, and now you can put track marks manually during recording.
- **To put track marks during recording,** press SET at the point where you want to put a track mark.

To restore auto track-marking, repeat steps 1 to 2 and select "AUTO TRACK ON" then press ENTER in step 3.
• The AUTO TRACK indicator lights on the display.

About manual track-marking
- Track marks must be recorded apart from each other by 4 seconds. If you press SET twice within 4 seconds, the second press of the button will be ignored (only one track mark will be recorded where you press SET for the first time).
- You cannot put track marks manually during CD Synchronized Recording. (Auto track-marking is activated temporarily.)

Continued

Separating Recorded Tracks Automatically—Auto-Track Space

While recording from the 3-CD Changer onto CD Recorder using Standard Recording method (see page 31), CD Recorder automatically places a 2-second blank space at the beginning of each track in the recording.
When shipped from the factory, this function is turned "ON."

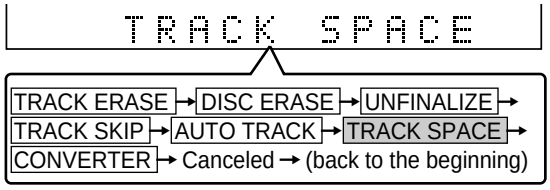
- This function works when "AUTO TRACK" is set to "ON." (See page 40.)

To cancel Auto-Track Space, follow the procedure below:

On the remote control ONLY:

1 **Press MENU repeatedly until "TRACK SPACE" appears in the main display.**

- Each time you press the button, the following menu items appear as follows:


TRACK SPACE
TRACK ERASE → DISC ERASE → UNFINALIZE →
TRACK SKIP → AUTO TRACK → TRACK SPACE →
CONVERTER → Canceled → (back to the beginning)

2 **Press SET.**

The current setting for Track Space appears.

Ex.: When Track Space is activated (initial setting)

3 **Press ►► / ►►I or I◄◄ / ◄◄ to select "TR SPACE OFF" then press ENTER.**

To activate Track Space, repeat steps 1 to 2 and select "TR SPACE ON" then press ENTER in step 3.

Turning On or Off Sampling Frequency Rate Converter

The sampling frequency rate converter built in the CD Recorder allows you to record a digital source having sampling frequency (fs) of 32 kHz, 44.1 kHz, or 48 kHz by converting the fs of the source signals into 44.1 kHz (required fs to record on CD Recorder).
When the sampling frequency converter is turned "OFF," digital signals are sent to CD Recorder bypassing the sampling frequency converter (without conversion).

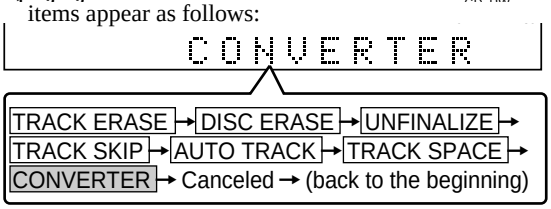
- Normally set it to "ON" (Initial setting at the factory). Only when you record dts CD or HDCD signals coming through the LINE DIGITAL IN terminal, turn off the sampling frequency rate converter.

To turn off Converter, follow the procedure below:

On the remote control ONLY:

1 **Press MENU repeatedly until "CONVERTER" appears in the main display.**

- Each time you press the button, the following menu items appear as follows:


CONVERTER
TRACK ERASE → DISC ERASE → UNFINALIZE →
TRACK SKIP → AUTO TRACK → TRACK SPACE →
CONVERTER → Canceled → (back to the beginning)

2 **Press SET.**

The current setting for Converter appears.

Ex.: When Converter is activated (initial setting)

3 **Press ►► / ►►I or I◄◄ / ◄◄ to select "CONVERTER OFF" then press ENTER.**

To activate Converter, repeat steps 1 to 2 and select "CONVERTER ON" then press ENTER in step 3.

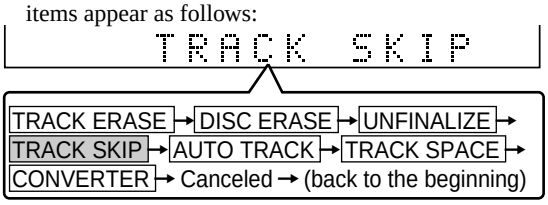
Recording Skip Marks onto a CD-R/CD-RW

Before finalizing a disc, you can record a skip mark to an unwanted track so that it will be skipped (ignored as if it does not exist) during play.

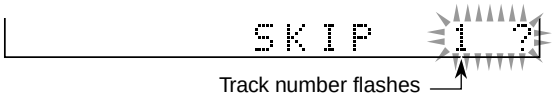
IMPORTANT
- Once skip marks are recorded, they cannot be erased (you can only erase skip marks by erasing the tracks with skip marks).
- If you unplug the power cord or if a power failure occurs while "WRITE SKIP" is flashing in the main display (in step 3), the disc may not be utilized any more.

On the remote control ONLY:

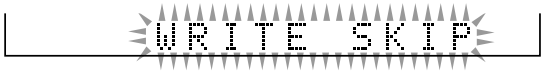
1 Press MENU repeatedly until "TRACK SKIP" appears in the main display.
- Each time you press the button, the following menu items appear as follows:


TRACK SKIP
TRACK ERASE → DISC ERASE → UNFINALIZE →
TRACK SKIP → AUTO TRACK → TRACK SPACE →
CONVERTER → Canceled → (back to the beginning)

2 Press SET.
The following indication appears in the main display.



3 Press ►► / ►►I or I◄◄ / ◄◄ to select a track you want to skip (during play) then press ENTER.
The SKIP ON indicator lights on the display.



4 Repeat steps 1 to 3 until you record skip marks to all unwanted tracks.
- You can record up to 21 skip marks on a disc.

More about skip marks
- "Skipping tracks during play" does not mean erasing recorded data. Therefore the remaining time of the disc will not change.
- Tracks with skip marks will be skipped only when playing the disc on CD Recorder and other CD player which can read these skip marks.

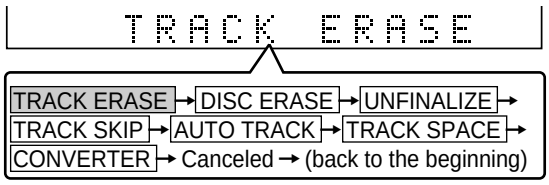
Erasing Tracks (Only for CD-RW)

Before finalizing a disc, you can erase recorded tracks—from a selected track up to the last track—on a **CD-RW** at a time.
- To erase recorded tracks on a finalized CD-RW, unfinalize the disc first (see page 43).

IMPORTANT
- Once erasure is performed, erased data cannot be restored.
- If you unplug the power cord or if a power failure occurs while "ERASE TRACK" is flashing in the main display (in step 4), the disc may not be utilized any more.

On the remote control ONLY:

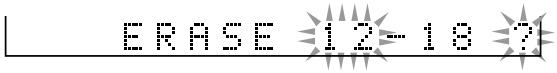
1 Press MENU repeatedly until "TRACK ERASE" appears in the main display.
- Each time you press the button, the following menu items appear as follows:


TRACK ERASE
TRACK ERASE → DISC ERASE → UNFINALIZE →
TRACK SKIP → AUTO TRACK → TRACK SPACE →
CONVERTER → Canceled → (back to the beginning)

2 Press SET.
The following indication appears in the main display.

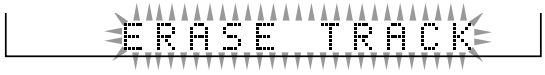
- Erasure start track number, when it appears, is the same as the last track number. (In the above example, 18 tracks are recorded on the CD-RW.)

3 Press ►► / ►►I or I◄◄ / ◄◄ to select the erasure start track.
- You can also use the number buttons to select the track. (See "To go to another track directly using the number buttons" on page 27.)



Ex.: When you erase the 12th track up to the last

4 Press ENTER.
While erasure is performed, "ERASE TRACK" flashes in the main display. (The REC indicator also lights on the display.)



English

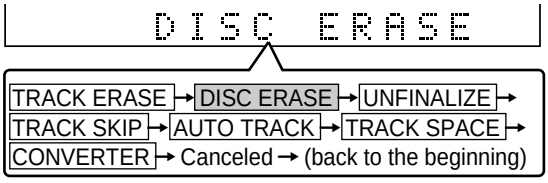
Erasing All Tracks (Only for CD-RW)

You can erase all the recorded tracks on a **CD-RW** at a time.

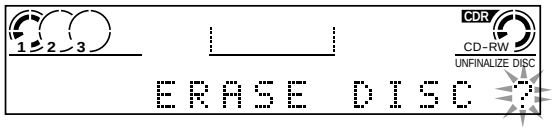
Before you start....
- Once erasure is performed, erased data cannot be restored.
- If you unplug the power cord or if a power failure occurs while "ERASE DISC" is flashing in the main display (in step 3), the disc may not be utilized any more.

On the remote control ONLY:

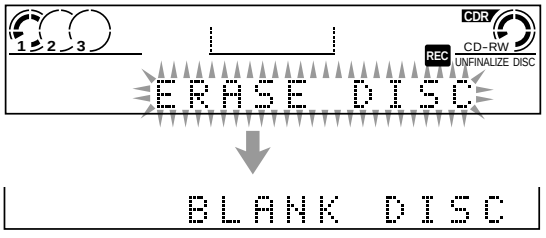
1 **Press MENU repeatedly until "DISC ERASE" appears in the main display.**
- Each time you press the button, the following menu items appear as follows:


DISC ERASE
TRACK ERASE → DISC ERASE → UNFINALIZE →
TRACK SKIP → AUTO TRACK → TRACK SPACE →
CONVERTER → Canceled → (back to the beginning)

2 **Press SET.**
The confirmation message appears.



3 **Press ENTER.**
While erasure is performed (for about 90 seconds), "ERASE DISC" flashes in the main display. (The REC indicator also lights on the display.)



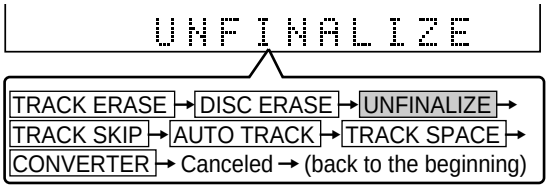
Unfinalizing a Disc (Only for CD-RW)

By erasing the TOC (Table of Contents) of a finalized CD-RW, you will be able to record on the CD-RW again.
This erasing process of the TOC is called "Unfinalization."
- Unfinalization is just to erase the TOC only, but not the recorded music signals on the disc.

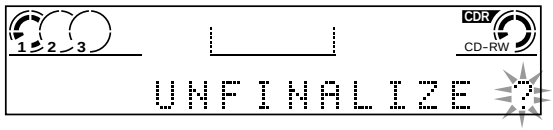
IMPORTANT
If you unplug the power cord or if a power failure occurs while "UNFINALIZE" is flashing in the main display (in step 3), the disc may not be utilized any more.

On the remote control ONLY:

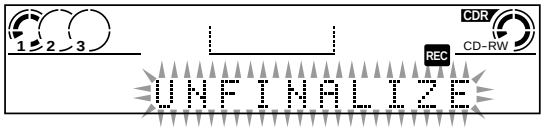
1 **Press MENU repeatedly until "UNFINALIZE" appears in the main display.**
- Each time you press the button, the following menu items appear as follows:


UNFINALIZE
TRACK ERASE → DISC ERASE → UNFINALIZE →
TRACK SKIP → AUTO TRACK → TRACK SPACE →
CONVERTER → Canceled → (back to the beginning)

2 **Press SET.**
The confirmation message appears.



3 **Press ENTER.**
While erasure is performed (for about 90 seconds), "UNFINALIZE" flashes in the main display.

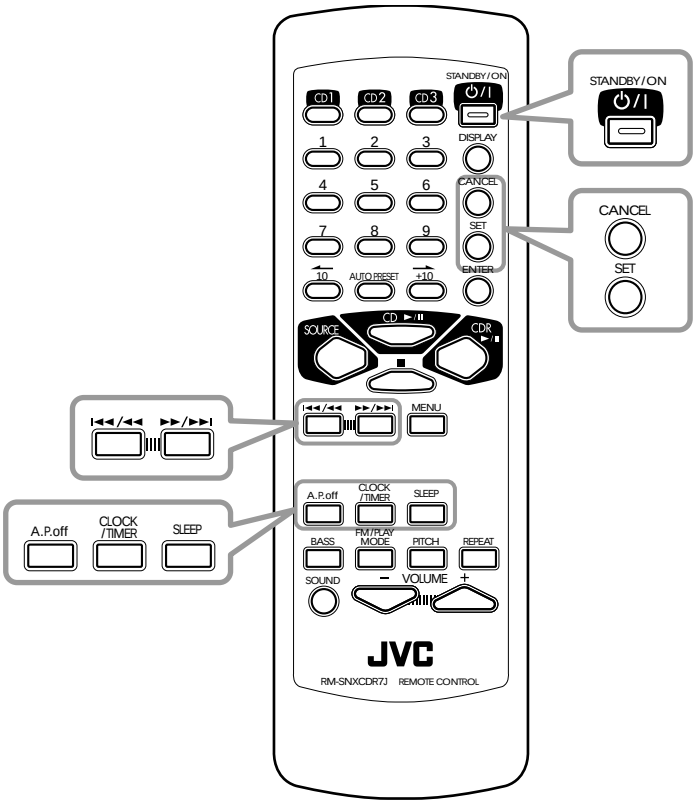


Using the Timers

English

The buttons and controls enlarged in the illustration below are used and explained in this section (pages 45 to 49).

Remote control



You cannot use the buttons and controls on the unit.
Use only the remote control.

Continued

There are three timers available—Recording Timer, Daily Timer, and Sleep Timer.
Before using these timers, you need to set the clock built in the unit.
- In addition to these three timers, you can also use Auto Power Off to shut off the power automatically.

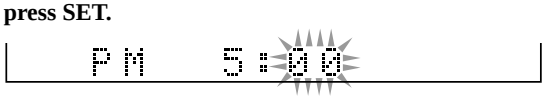
Setting the Clock

You can set the clock whether the unit is turned on or off (on standby).
- If you have activated the power consumption saving mode (“DISPLAY OFF”), you cannot adjust the clock while the unit is turned off (on standby). For details, see page 14.

On remote control ONLY:

1 **Press CLOCK/TIMER.**
The hour digit in the main display starts flashing.

2 **Press ►► / ►►I or I◄◄ / ◄◄ to adjust the hour, then press SET.**



- If you want to correct the hour after pressing SET, press CANCEL.
  The hour digit starts flashing again.

3 **Press ►► / ►►I or I◄◄ / ◄◄ to adjust the minute, then press SET.**
The built-in clock starts working.

To adjust the clock again

Once you have adjusted the clock, you need to press CLOCK/TIMER repeatedly until the clock setting screen appears in the main display (the hour digit starts flashing).

When you unplug the AC power cord or if a power failure occurs

The clock will be reset to “AM 12:00” in about one minute.

Using Recording Timer

With Recording Timer, you can make an unattended recording.
- You can set Recording Timer whether the unit is turned on or off (on standby).
- To correct a misentry any time during the process, press CANCEL.
- To cancel the setting any time during the process, press CLOCK/TIMER.

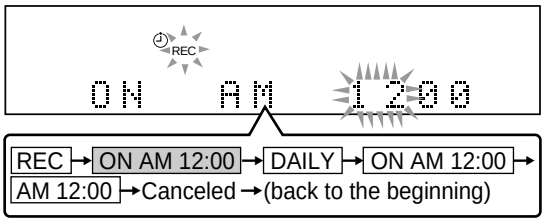
How Recording Timer actually works

The unit automatically turns on about 3 minutes before timer recording starts, then turns off the volume and starts recording on CD Recorder when the timer on-time comes. When the timer off-time comes, the unit automatically turns off (stands by).
- Recording Timer works only once, but the timer settings remain stored in memory.

Before you start....
- Make sure that a recordable CD-R or CD-RW is inserted on the CDR disc tray. If not, insert a recordable CD-R or CD-RW.
- When you want to record from the external component (“LINE”), make sure the input you want to use is currently selected—either “ANALOG IN” or “DIGITAL IN.” (See page 31 for more details.)

On remote control ONLY:

1 **Press CLOCK/TIMER repeatedly until the Recording Timer on-time setting screen appears in the main display.**
The ⏲ (Timer) indicator lights and the REC (Recording Timer) indicator starts flashing on the display.
- Each time you press the button, the timer mode changes as follows:



* “AM 12:00” is the initial setting time at the factory.

To be continued

2 **Press ►► / ►►I or I◄◄ / ◄◄ to set the hour of the on-time, then press SET.**

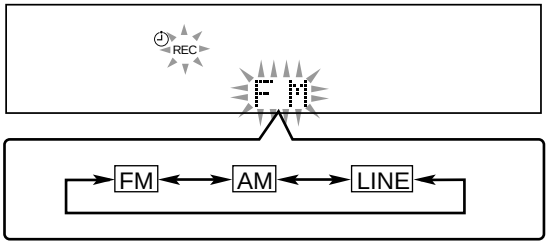
3 **Press ►► / ►►I or I◄◄ / ◄◄ to set the minute of the on-time, then press SET.**

4 **Press ►► / ►►I or I◄◄ / ◄◄ to set the hour of the off-time, then press SET.**

5 **Press ►► / ►►I or I◄◄ / ◄◄ to set the minute of the off-time, then press SET.**

6 **Press ►► / ►►I or I◄◄ / ◄◄ to select the source, then press SET.**

• The source changes as follows:

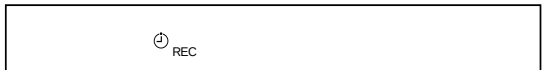


FM: Tunes into an FM station.
AM: Tunes into an AM station.
LINE*: Selects the external component as the source through the currently selected input—"ANALOG IN" or "DIGITAL IN."

* To operate the component with the Recording Timer, it also needs to have the timer function.

7 **<u>If you have selected "FM" or "AM" as the source in the above step,</u>** select a preset number.
Press ►► / ►►I or I◄◄ / ◄◄ to select a preset station, then press SET.

<u>If you have selected "LINE" as the source in the above step,</u> simply press SET.



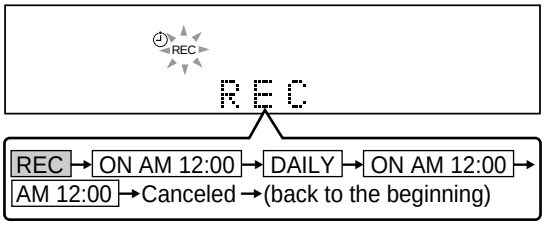
The REC (Recording Timer) indicator stops flashing, and remains lit.

8 **Press ⏻/I to turn off the unit (on standby) if you have set the timer with the unit turned on.**

IMPORTANT: If you turn off the unit within 4 minutes before the timer on-time, timer recording will not start.

To turn on or off Recording Timer after its setting is done

1 Press CLOCK/TIMER repeatedly until "REC" appears in the main display.



* "AM 12:00" is the initial setting time at the factory.

2 To turn off the Recording Timer, press CANCEL to select "REC OFF."
The ⏲ (Timer) and REC (Recording Timer) indicators go off from the display.
The Recording Timer is canceled, but the setting for the Recording Timer remains in memory.

To turn on the Recording Timer, press SET.
The ⏲ (Timer) and REC (Recording Timer) indicators light on the display. The settings you have done are shown in the main display for your confirmation.

If you change the source or press CLOCK/TIMER or SLEEP while a timer recording is being performed

Recording Timer is canceled (but recording continues). The unit does not turn off automatically.

• When you set Sleep Timer by pressing SLEEP, the unit turns off as you set by Sleep Timer.

Continued

Using Daily Timer

With Daily Timer, you can wake up to your favorite music or radio program.

- You can set Daily Timer whether the unit is turned on or off (on standby).
- To correct a misentry any time during the process, press CANCEL.
- To cancel the setting any time during the process, press CLOCK/TIMER.

How Daily Timer actually works

The unit automatically turns on about 3 minutes before Daily Timer playback starts, then starts playing the specified source when the timer on-time comes. The volume level increases to the preset level step by step. When the timer off-time comes, the unit automatically turns off (stands by).

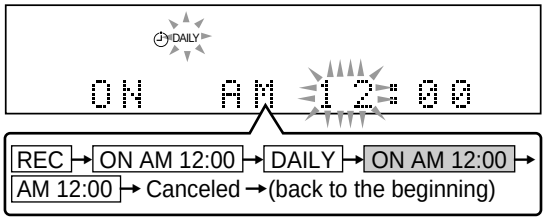
- Daily Timer works every day, and the timer settings remain stored in memory until you reset them.

On remote control ONLY:

1 Press CLOCK/TIMER repeatedly until the Daily Timer on-time setting screen appears in the main display.

The ⏲ (Timer) indicator lights and the DAILY (Daily Timer) indicator starts flashing on the display.

- Each time you press the button, the timer mode changes as follows:



* "AM 12:00" is the initial setting time at the factory.

2 Press ►► / ►►I or I◄◄ / ◄◄ to set the hour of the on-time, then press SET.

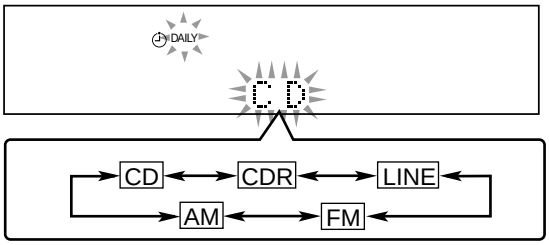
3 Press ►► / ►►I or I◄◄ / ◄◄ to set the minute of the on-time, then press SET.

4 Press ►► / ►►I or I◄◄ / ◄◄ to set the hour of the off-time, then press SET.

5 Press ►► / ►►I or I◄◄ / ◄◄ to set the minute of the off-time, then press SET.

6 Press ►► / ►►I or I◄◄ / ◄◄ to select the source, then press SET.

- The source changes as follows:



CD: Plays a disc in 3-CD Changer.
→ Prepare a disc, then go to step 7 to select the disc number.

CDR: Plays a disc in CD Recorder.
→ Prepare a disc, then go to step 8.

LINE*: Selects the external component connected to the LINE IN jacks.
→ Make the external component ready for playback, then go to step 8.

FM: Tunes into an FM station.
→ go to step 7 to select a preset station.

AM: Tunes into an AM station.
→ go to step 7 to select a preset station.

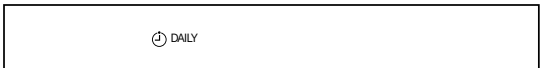
* To operate the component with the Daily Timer, it also needs to have the timer function.

7 **<u>If you have selected "CD" as the source in the above step,</u>** select a disc number.
Press ►► / ►►I or I◄◄ / ◄◄ to select the disc number (CD 1, CD 2, or CD 3), then press SET.

> **IMPORTANT:** When selecting a disc number, make sure that a disc is already loaded on the selected disc number tray. If there is no disc on the tray, playback will not start.

<u>If you have selected "FM" or " AM" as the source in the above step,</u> select a preset station.
Press ►► / ►►I or I◄◄ / ◄◄ to select a preset station, then press SET.

8 **Press ►► / ►►I or I◄◄ / ◄◄ to adjust the volume level, then press SET.**
The DAILY (Daily Timer) indicator stops flashing and remains lit.



9 **Press ⏻/I to turn off the unit (on standby) if you have set the timer with the unit turned on.**

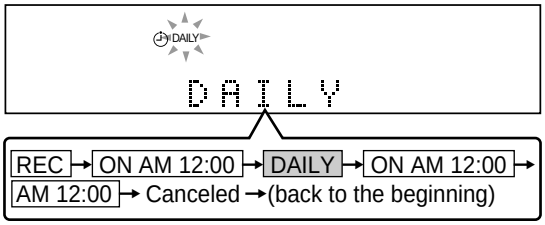
> **IMPORTANT:** If you turn off the unit within 4 minutes before the timer on-time, Daily Timer playback will not start.

If the unit is kept turned on when the timer on-time comes
Daily Timer does not work at all.

If you change the source or press CLOCK/TIMER or SLEEP while Daily Timer playback is being performed
Daily Timer is canceled and the unit does not turn off automatically.
- When you set Sleep Timer by pressing SLEEP, the unit turns off as you set by Sleep Timer.

To turn on or off Daily Timer after its setting is done

1 Press CLOCK/TIMER repeatedly until "DAILY" appears in the main display.



* "AM 12:00" is the initial setting time at the factory.

2 To turn off the Daily Timer, press CANCEL to select "DAILY OFF."
The ⏲ (Timer) and DAILY (Daily Timer) indicators go off from the display.
The Daily Timer is canceled, but the setting for the Daily Timer remains in memory.

To turn on the Daily Timer, press SET.
The ⏲ (Timer) and DAILY (Daily Timer) indicators light on the display. The settings you have done are shown in the main display for your confirmation.

Using Sleep Timer

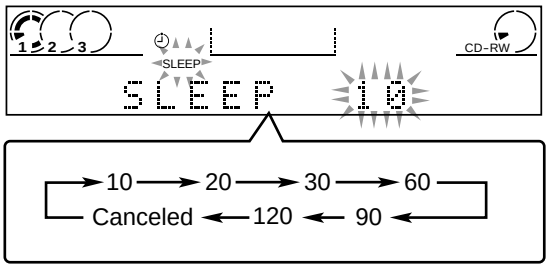
With Sleep Timer, you can fall asleep to your favorite music or radio program.
• You can set Sleep Timer when the unit is turned on.

How Sleep Timer actually works

The unit automatically turns off after the specified time length passes.

On the remote control ONLY:

1 Press SLEEP.
• Each time you press the button, the time length changes as follows:



2 Wait for about 5 seconds after specifying the time length.
The display dims.

To check the remaining time until the shut-off time, press SLEEP once. The remaining time until the shut-off time appears for about 5 seconds.

To change the shut-off time, press SLEEP repeatedly until the time length you want appears.

To cancel the setting, press SLEEP repeatedly so that the SLEEP indicator goes off.
• Sleep Timer is also canceled when you turn off the unit.

If you press SLEEP while Recording Timer or Daily Timer is operating
The operating timer will be canceled.

To sleep with the Sleep Timer and wake up with the Daily Timer

The unit turns off when the shut-off time comes (set by Sleep Timer), and turns on when the timer on-time (set by Daily Timer) comes.

1 Set the Daily Timer (see pages 47 and 48).

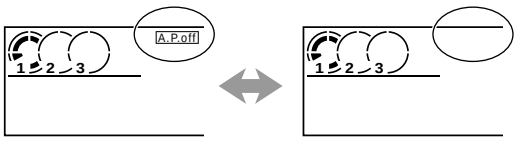
2 Start playing back any source you want to listen to until you sleep.

3 Set the Sleep Timer.

Using Auto Power Off

You can use this function only while playing a disc either on 3-CD Changer or on CD Recorder.
Auto Power Off automatically turns off the unit if no sound comes in for more than about 3 minutes.
If any operation is done during this 3-minute period (approximately), Auto Power Off is canceled temporarily even though no sound comes in.

On the remote control ONLY:
Press A.P.off so that the A.P.off indicator lights on the display.
• Each time you press the button, Auto Power Off turns on and off.



• When Auto Power Off is activated, the A.P.off indicator lights on the display.

The A.P.off indicator starts flashing if no sound comes in. When the remaining time until the shut-off time becomes 10 seconds, “AUTO P.OFF” appears and flashes in the main display.

Maintenance

English

To get the best performance of the unit, keep your discs and mechanism clean.

General Notes

In general, you will have the best performance by keeping your discs and the mechanism clean.

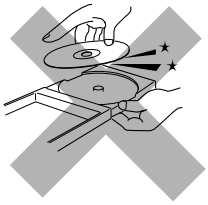
- Store discs in their cases, and keep them in cabinets or on shelves.
- Keep the disc trays closed when not in use.

To handling discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.
  When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.
- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.



To clean the disc

Wipe the disc with a soft cloth in a straight line from center to edge.

STOP! DO NOT use any solvent—such as conventional record cleaner, spray, thinner, or benzine—to clean the disc.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ballpoint pen, etc.

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater.
- When the unit is moved from the extremely hot place to the extremely cold place.

Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

STOP!
- DO NOT expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity.
- DO NOT leave discs in a car.

To clean the unit

- **Stains on the unit**
  Should be wiped off with a soft cloth. If the unit is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- **Since the unit may deteriorate in quality, become damaged or get its paint peeled off, be careful about the followings.**
  — DO NOT wipe it with a hard cloth.
  — DO NOT wipe it strong.
  — DO NOT wipe it with thinner or benzine.
  — DO NOT apply any volatile substance such as insecticides to it.
  — DO NOT allow any rubber or plastic to remain in contact with it for a long time.

English

Glossary

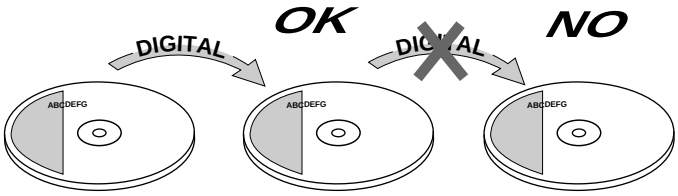
OPC (Optimum Power Control)
OPC is a function that checks the loaded disc and automatically adjusts the laser for optimum recording setting before recording through the Digital Optical Input terminal.

PCA (Power Calibration Area)
A space reserved at the beginning of a CD-R/CD-RW for calibrating the laser output power required to record on that disc.

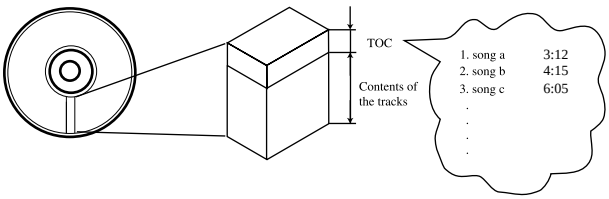
PMA (Program Memory Area)
A temporary memory area on a CD-R/CD-RW, where the information about the recordings on the disc—track numbers, tracks' start points and end points, etc. is stored until the disc is finalized.
When the disc is finalized, this information is written in the TOC (see below).

Sampling Frequency
When analog signals are converted into digital signals, they are divided into many points and digitized. This dividing method is called "sampling." The sampling frequency indicates how many points one second is divided into—for example, for CD sound, one second is divided into 44 100 points since its sampling frequency is 44.1 kHz.

SCMS (Serial Copy Management System)
Digital audio components, such as CD recorder, MD (Mini-Disc) recorder and DAT (Digital Audio Tape) recorder, can exchange audio signals in the digital forms through digital input/output terminals. The digital audio components allow digital copy of music signals with little deterioration. This has made it necessary to have a copy restriction rule for protecting the copyright, and "SCMS (Serial Copy Management System)" has been established as a result.
To protect the copyright, the SCMS allows only first-generation digital copies to be made from premastered software (like CDs or prerecorded MDs).



TOC (Table of Contents)
TOC is a kind of disc information containing sub-data (track number, playing time, etc.) that enables us to search for tracks quickly on the disc.
To write the TOC on a CD-R or CD-RW, you need to finalize the disc.



Messages

Message	Signification	Solution
ALL SKIP TR	Skip marks are recorded to all the tracks.	Replace the disc.
ALREADY FINAL	You are trying to erase a track or add a skip mark on a finalized disc.	
ALREADY UNFIN.	You are trying to unfinalize an unfinalized disc.	
BLANK DISC	Loaded disc is blank.	
CANNOT ERASE	Loaded disc is damaged. Erasure on this disc is impossible.	Replace the disc.
CANNOT FIN.	Loaded disc is damaged. Finalization on this disc is impossible.	Replace the disc.
CANNOT LISTEN	You are trying to adjust the volume during high-speed recording.	During high-speed recording, no sound can be heard; therefore you cannot adjust the volume.
CANNOT REC	Disc is damaged. Recording on this disc is impossible.	Replace the disc.
CANNOT UNFIN.	Loaded disc is damaged. Unfinalization on this disc is impossible.	Replace the disc.
CDR DISC NG	Loaded CD-R is damaged.	Replace the disc.
DAO DISC	You are trying to unfinalize a CD-RW which has been recorded using the “Disc At Once” recording system.	Replace the disc.
DISC FULL	You are trying to record on a fully recorded CD-R or CD-RW.	Replace the disc.
NOT AUDIO IN	Incoming digital signal is not of an audio format.	Check the source played on the external component connected to the LINE DIGITAL IN terminal.
NOT REC MUTE	You are trying to use the REC MUTE button during Synchronized Recording.	You can only use the REC MUTE button during Standard Recording.
NO AUDIO DISC	Loaded disc is not an audio disc.	Replace the disc.
NO RW DISC	You are trying to perform one of the functions which is only possible on a CD-RW.	Load a CD-RW.
NO R/RW DISC	You are trying to perform one of the functions which is only possible on a CD-R or CD-RW.	Load a CD-R or CD-RW.
OPC ERROR	OPC cannot be performed. No recording or erasure can be performed on this disc.	Replace the disc.
OPC FULL	PCA is full. No recording or erasure can be performed on this disc.	Replace the disc.
PMA FULL	PMA is full. No recording or erasure can be performed on this disc.	Replace the disc.
SCMS PROTECT	Digital recording is prohibited in accordance with SCMS regulations.	See “SCMS” on page 51.
SHORT REMAIN	The remaining time on a disc is shorter than the playing time of the track you are trying to record.	
SKIP FULL	21 skip marks are already recorded.	
TNO FULL	99 tracks have been recorded. No further recording is possible.	
UNLOCK	The external digital component is not connected properly or is turned off, or its signals are incompatible.	Check the connection, or playback source.
UPDATE OPC	OPC is being performed before recording, if a disc is just inserted in CD Recorder.	This is normal. After OPC is correctly done, recording starts.

English

Troubleshooting

If you are having a problem with your unit, check this list for a possible solution before calling for service.
If you cannot solve the problem from the hints given here, or the unit has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	• Connections are incorrect, or loose.	• Check all connections and make corrections. (See pages 8 – 11.)
	• CD-ROM is loaded.	• Replace the disc .
Unable to record on a CD-R or CD-RW.	• CD-R or CD-RW has been loaded upside down. (“NO DISC” appears on the display.)	• Insert the disc correctly.
	• Finalized CD-R or CD-RW has been loaded.	• CD-R: Replace the disc. CD-RW: Unfinalize the CD-RW (see page 43).
	• Disc is dirty or scratched.	• Clean or replace the disc (see page 50).
Poor radio reception.	• The antenna is not connected correctly.	• Reconnect the antenna securely.
	• The AM loop antenna is too close to the unit.	• Change the position and direction of the AM loop antenna.
	• The FM antenna is not properly extended and positioned.	• Extend FM antenna to the best reception position.
Unable to operate the remote control.	• The path between the remote control and the remote sensor on the unit is blocked.	• Remove the obstruction.
	• The batteries have lost their charge.	• Replace the batteries. (See page 12.)
Loaded discs cannot be ejected.	• The main AC power cord is not plugged in.	• Plug in the AC power plug.
	• Disc Lock is in use.	• Turn off Disc Lock. (See page 25.)
The disc does not play.	The disc is upside down.	Put the disc in with the label side up.
The disc play skips.	The disc is dirty or scratched.	Clean or replace the disc. (See page 50.)
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the unit then plug it back in.

IMPORTANT

- If you are going to record something important, always test-record first to check that the recording turns out properly before proceeding with the actual recording.
- The manufacturer assumes no liability whatsoever for any damage resulting from missed opportunity or accidental erasure that occurs while conducting recording or playback operations due to malfunctioning of or trouble in the unit, or for any incidental damage.

Specifications

English

Amplifier—CA-NXCDR7

Output Power:

28 W per channel, min. RMS, driven into 6 Ω, 40 Hz to 20 kHz, with no more than 10% total harmonic distortion

Audio input sensitivity/Impedance (at 1 kHz)

Analog input:

LINE IN: 125 mV/47 kΩ (at "LEVEL 2")
500 mV/47 kΩ (at "LEVEL 1")
1.3 V/47 kΩ (at "LEVEL 3")

Digital input:

LINE DIGITAL IN: OPTICAL
Signal wave length: 660 nm
Input level: –23 dBm to –15 dBm
(With the built-in sampling rate converter, corresponding to 32 kHz/44.1 kHz/48 kHz)

Audio output level/Impedance (at 1 kHz)

Analog output:

LINE OUT: 160 mV/2.2 kΩ

Digital output:

3CD DIGITAL OUT: OPTICAL
Signal wave length: 660 nm
Output level: –23 dBm to –15 dBm

Speakers/Impedance: 6 Ω — 16 Ω

Tuner

FM tuning range:	87.50 MHz — 108.00 MHz
AM tuning range:	530 kHz — 1 710kHz

CD player

CD Capacity:	3 CDs
Dynamic range:	88 dB
Signal-to-noise ratio:	95 dB
Wow and flutter:	Immeasurable

CD Recorder

System:	Compact disc digital audio recording system
Sampling frequency:	44.1 kHz
Dynamic range:	91 dB
Signal-to-noise ratio:	94 dB
Frequency response:	20 Hz to 20 kHz
Wow and flutter:	Immeasurable

General

Power requirement:	AC 120 V∿, 60 Hz
Power consumption:	70 W (at operation) 1 W (on standby: with Display Off) 3.3 W (on standby: with Display On)
Dimensions (approx.):	185 mm × 210 mm × 349 mm ($7^5/_{16}$ in. × $8^5/_{16}$ in. × $13^3/_4$ in.) (W/H/D)
Mass (approx.):	7.4 kg (16.4 lbs)

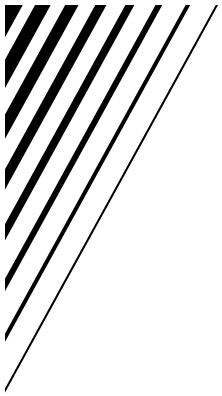
Speaker—SP-NXCDR7

Speakers:	2-way Bass-Reflex Type Woofer 10 cm ($3^{15}/_{16}$ in.) Cone × 1 Tweeter 2 cm ($^{13}/_{16}$ in.) Dome × 1
Power Handling Capacity:	25 W
Impedance:	6 Ω
Frequency Range:	55 Hz to 20 000Hz
Dimensions (W × H × D):	130 × 210 × 231 mm ($5^1/_8$ in. × $8^5/_{16}$ in. × $9^1/_8$ in.)
Sound Pressure Level:	84 dB/W•m
Mass:	2.0 kg (4.5 lbs) each

Supplied accessories

See page 8.

Design and specifications are subject to change without notice.



JVC

VICTOR COMPANY OF JAPAN, LIMITED

EN,FR

0901MWMMDWJEM

Authorized Service Centers

QUALITY JVC® SERVICE

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1 (800) 537-5722

http://www.jvc.com

Dear Customer,
In order to receive the most satisfaction from your purchase,please read the instruction booklet before operating the unit.In the event that repairs are necessary, please call 1 (800)537-5722 for your nearest authorized servicer or visit our website at **www.JVC.com**
Remember to retain your Bill of Sale for Warranty Service.

Do not service the television yourself

Caution

To prevent electrical shock,do not open the cabinet.There are no user serviceable parts
inside.Please refer to qualified service personnel for repairs.

Accessories

To purchase accessories for your JVC product,please call toll free:1 (800)882-2345 or on the web at **www.JVC.com**

BT-51018-3
(0301)

PRINTED IN MALAYSIA

JVC

LIMITED WARRANTY

AUDIO-1 **USA ONLY**

ONLY FOR PRODUCT PURCHASED IN U.S.A.

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period")

PARTS	LABOR
1 YR	**1 YR**

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:
If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:
Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 537-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:
This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model number or serial number has been altered, tampered with, defaced or removed;
2. Initial installation and installation and removal for repair;
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, New Jersey 07470

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. : NX - CDR7 Serial No. :

Purchase data : Name of dealer :

Thank you for purchasing

JVC®

Please do not send products or other correspondence to this address.

307 C

PLACE FIRST-CLASS STAMP HERE

JVC®

PRODUCT REGISTRATION DEPARTMENT
PO BOX 13274
DENVER CO 80201-3274

PRODUCT REGISTRATION CARD/QUESTIONNAIRE

US CUSTOMERS ONLY

Please return this registration card today to qualify for a monthly drawing that could reimburse you for the cost of your JVC product.

Registering your product will allow us to contact you in the unlikely event a product safety notification is required.

This is not a warranty card. Retain your bill of sale for proof of warranty coverage.

THANK YOU FOR PURCHASING THIS JVC PRODUCT

REGISTER ONLINE AT: WWW.JVC.COM

IMPORTANT! Please fill-out and return within 10 days!

307 C JVC®

1 First Name: **Initial:** **Last Name:**

Address: (Number and Street) **Apt #:**

City: **State:** **Zip Code:**

2 Phone #:

3 E-mail Address:
If you voluntarily provide us with your email address, you give us permission to share and use your email address to send you email offers that may interest you.

(EXAMPLE: yourname@yourhost.com)

4 Date of purchase: Month Day Year

5 Model Number:

6 Serial Number:

7 Name of store where purchased:

8 Purchase Price: $ .00

9 Did you:
1. o Purchase this product yourself?
2. o Receive this product as a gift?

10 Is this product:
1. o The first product of this type you have ever owned?
2. o A replacement for a similar JVC product?
3. o A replacement for a similar product made by another company?
4. o An addition to a similar product you are still using?

11 What factors most influenced your decision to purchase this product?
1. o JVC brand reputation
2. o Previous experience with JVC products
3. o Price
4. o Specific product features
5. o Style/appearance
6. o Salesperson's recommendation
7. o Friend's/relative's recommendation
8. o Warranty coverage
9. o Other_____

12 A. If you have purchased a mobile audio product, please tell us about the car or truck in which it was installed, otherwise, please tell us about the newest car or truck in your household.

Make: (e.g. Ford)

Model: (e.g. Taurus SHO)

Year:

B. Please check which applies:
1. o Own
2. o Lease

13 Would you like information on JVC accessories or other JVC products related to the item you purchased?
1. o Yes 2. o No

14 Would you be interested in purchasing an extended warranty for your JVC product? 1. o Yes 2. o No

15 Your gender: 1. o Male 2. o Female

16 Your marital status: 1. o Married 2. o Single

17 Date of your birth: Month Day Year

18 Including yourself, what is the total number of people living in your household?
(Examples: 01, 02, 03, 04...)

19 Date of birth (month/year) of the other adults and children in your household:

Male	Female	Month/Year	Male	Female	Month/Year
1. o	2. o		1. o	2. o	
1. o	2. o		1. o	2. o	

20 For your primary residence, do you:
1. o Own 2. o Rent

21 Which best describes your family income?
1. o Under $15,000
2. o $15,000-$24,999
3. o $25,000-$34,999
4. o $35,000-$49,999
5. o $50,000-$74,999
6. o $75,000-$99,999
7. o $100,000-$124,999
8. o $125,000-$149,999
9. o $150,000-$174,999
10. o $175,000-$199,999
11. o $200,000-$249,999
12. o $250,000 or over

22 Education:
(Please check which category applies to you):
1. o Some high school
2. o Completed high school
3. o College degree
4. o Graduate degree

23 In the last six (6) months has anyone in your household purchased any of the following items through the mail and/or over the internet?

	A. Mail	B. Internet
1. Books/magazines	o	o
2. Children's products	o	o
3. Clothes	o	o
4. Insurance/financial products	o	o
5. Music/video/DVD	o	o
6. Travel	o	o
7. Other	o	o

24 I use these credit cards:
1. o American Express
2. o Gas/Retail
3. o Master Card
4. o Visa
5. o Other_____
6. o Do not have credit cards

25 Someone in my home participates in the following activities:
(Check all that apply)
1. o Automotive work
2. o Bible/devotional
3. o Boating/sailing
4. o Camping/hiking
5. o Casino gambling
6. o Contribute to charitable causes
7. o Crafts
8. o Cultural art/events
9. o Cycling
10. o Do-it-yourself
11. o Enter sweepstakes/contests
12. o Fishing
13. o Fitness/exercise/jogging
14. o Gardening
15. o Golf
16. o Gourmet cooking/food/wines
17. o Grandchildren
18. o Home decorating
19. o Hunting/shooting
20. o Investments (mutual funds, IRA's)
21. o Investments (stocks & bonds)
22. o Movie watching
23. o Own a cat
24. o Own a dog
25. o Personal computing / internet
26. o Photography
27. o Read books
28. o Snow skiing
29. o Self improvement
30. o Soccer
31. o Tennis
32. o Travel-Foreign
33. o Travel-U.S
34. o TV shopping
35. o Vitamins/natural foods
36. o Watch sports on TV

Thank you for completing this questionnaire. Your answers will help us and other companies reach you with offers that may interest you.
If you prefer **not** to receive these offers, please check here [ ].

BT-51028-1
(0501)

PLEASE FOLD AND SEAL WITH TAPE BEFORE MAILING. DO NOT STAPLE.

Printed in Malaysia

Important Products Safety Instruction

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

ATTENTION:
Follow and obey all warnings and instructions marked on your product and its operating instructions. For your safety, please read all the safety and operating instructions before you operate this product and keep this brochure and the operating instructions packaged with your product for future reference.

INSTALLATION

1. Grounding or Polarization

(A) Your product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.
If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

(B) Your product may be equipped with a 3-wire grounding-type plug, a plug having a third(grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature.
If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

2. Power Sources

Operate your product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. If your product is intended to operate from battery power, or other sources, refer to the operating instructions.

3. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

4. Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

5. Ventilation

Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

- Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
- Do not place the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer' s instructions have been adhered to.

6. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

ANTENNA INSTALLATION INSTRUCTIONS

1. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

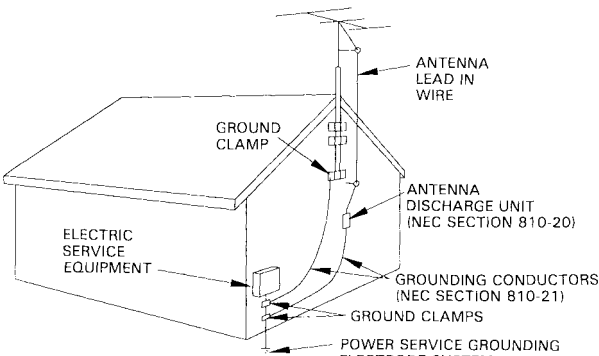
2. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

3. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC - NATIONAL ELECTRICAL CODE

USE

1. Accessories

To avoid personal injury:

- Do not place this product on an unstable cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child or adult, and serious damage to the product.
- Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product.
- Use a mounting accessory recommended by the manufacturer and follow the manufacturer's instructions for any mounting of the product.
- Do not try to roll a cart with small casters across thresholds or deep-pile carpets.

PORTABLE CART WARNING
(Symbol provided by RETAC)

2. Product and Cart Combination
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

3. Water and Moisture
Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.

4. Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

5. Attachments
Do not use attachments not recommended by the manufacturer of this product as they may cause hazards.

6. Cleaning
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

7. Heat
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

SERVICING

1. Servicing
If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

2. Damage Requiring Service
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a. When the power supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or damaged in any way.
f. When the product exhibits a distinct change in performance—this indicates a need for service.

3. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

4. Safety Check
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating conditions.

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YU20333

JVC AUTHORIZED SERVICE CENTRES IN CANADA

CENTRES DE SERVICE JVC AGRÉÉS AU CANADA

Province	Name	Products	Address	Telephone
ALBERTA	AV ELECTRO TECH SERV. LTD.	A.V.TV.VM.	10739-107 Ave., Edmonton, T5H 0W6	403-426-2837
	EDMONTON CONSUMER SERV.	A.V.TV.	5918-99 St., Edmonton, T6E 3N9	403-434-6363
	ELITE ELECT (1992)	A.V.TV.VM.	4310-12th St. N.E., Calgary, T2E 6K9	403-250-4442
	FAITH ELECTRONICS LTD.	A.V.TV.VM-M.	922-2 Ave., "A" N Lethbridge, T1H 5W1	403-327-2977
	G.P. ELECTRONIC SERV.	A.V.TV.	9914-109 Ave., Grande Prairie, T8V 1R6	403-539-4240
	MICROTECH ELECTRONICS	A.V.TV.	100, 2735-39 Ave. N.E., Calgary, T5L 4R7	403-250-7041
	SKYLINE MICROWAVE	A.V.TV.	9916-113 Ave., Grande Prairie, T8V 1W7	403-539-9677
	S.M. ELECTRONICS	A.V.TV.	P.O. BOX 704, 133 River Ave., Cochrane, T0L 0W0	403-932-3857
	SYLVAN ELECTRONICS	A.V.TV.	4425-50th St., P.O. BOX 810, Sylvan Lake, T0M 1Z0	403-887-3545
	TEL-RAY TELEVISION LTD.	A.V.TV.	683 South Railway St., Medicine Hat, T1A 2V8	403-526-4588
	TOWN & COUNTRY RADIO & TV SERIVICE	A.V.TV.	4A 4999-76 St., Red Deer, T4N 1T5	403-347-4388
BRITISH COLUMBIA	AUDIO VIDEO ELECTRONICS	A.V.TV.	5097 Canada Way, Burnaby, V5E 3N1	604-524-4224
	B.C. SOUND & RADIO SERV.	A.V.TV.	1805 Fort St., Victoria, V8R 1J6	604-595-4225
	BILL COLTART & CO., LTD.	A.V.TV.	2055 Fitzgerald Ave., Courtenay, V9N 2T1	604-338-5858
	DIAMOND TV & RADIO	A.V.TV.	4844 Joyce Ave., Powell River, V8A 3B6	604-485-5793
	ELECTRON ENTERTAINMENT INC.	A.V.TV.VM-M.	#4-610 Richard Road, Prince George, V2K 4L3	604-564-1127
	GENERAL TECHNICAL SERV.	A.V.TV.	2021 Dollarton HWY., North Vancouver, V7H 1A6	604-929-1938
	GUZMAN ELECTRONICS	A.V.TV.	2146 Government St., Penticton, V2A 8B5	604-492-7890
	HYTEK ELECTRONICS	A.V.TV.	639 Yates St., Victoria, V8W 1L2	604-385-4234
	K.E.B.B. ELECT. CLINIC	A.V.TV.	1609A Bowen Road, Nanaimo, V9S 1G5	604-754-6335
	KELOWNA TV AUDIO SERV.	A.V.TV.	1695 Burtch Rd., Kelowna, V1Y 4A9	604-860-9888
	K.S. VIDEO LTD.	A.V.TV.	4390 Fraser St., Vancouver, V5V 4G3	604-876-8320
	MAR-NIK ELECTRONICS	A.V.TV.	353 Victoria St., Kamloops, V2C 2A3	604-372-2104
	MAXTECH AV SER. LTD.	A.V.TV.VM.PV.	155-12830 Clarke Place, Richmond, V6V 2H5	604-276-2264
	NIPPON VIDEO & SOUND LTD.	A.V.TV.VM.	180-3771 Jacombs Rd., Richmond, V6X 2M5	604-270-2820
	Q-TEL SERVICES	A.V.TV.	4-5845 Trans Can HWY, Duncan, V9L 3R9	604-748-0010
	Q-TEL SERVICES	A.V.TV.VM.	627 Dunedin St., Victoria, V8T 2L7	604-388-9333
	R.S. VIDEOTRONICS	A.V.TV.	6834 King George HWY, Surrey, V3W 4Z9	604-591-3222
	SNIDER'S ELECTRONICS	A.V.TV.	10526-101 Ave., Fort St. John, V1J 2B8	604-785-8898
	THE T.V. SHOP	A.V.TV.	4807 Hamer Ave., Terrace, V8G 2E5	604-635-4695
	VALLEY DIGITRONICS	A.V.TV.VM.	2453 HWY. 97 North Kelowna, V1X 4J2	604-763-8366
	VERNON ELECT. SERV. INC.	A.V.TV.	2804-33rd St., Vernon, V1T 5S5	604-545-2266
MANITOBA	AUTEK LAB LIMITED	A.V.TV.VM.	488 St. Anne's Road Winnipeg, R2M 3E1	204-256-4048
	JAPAN AUDIO	A.V.TV.VM.	1037 Erin St., Winnipeg, R3G 2X1	204-775-0494
	PEMBINA ELECTRONICS	A.V.TV.	3 Willowdale Cr. #3, Brandon, R7B 2X3	204-728-8318
NEW BRUNSWICK	B & G IDEAL SERVICE LTD.	A.V.TV.	81 Water St., Campbellton, E3N 1A9	506-753-5474
	B J W ELECTRONICS LTD.	A.V.TV.VM-M	59 Pacific Ave., Moncton, E1E 2G2	506-857-2118
	CYGNUS TECHNOLOGY	A.V.TV.	154 Main St., Fredericton, E3A 1C8	506-459-4606
	DATA ELECTRONICS REG.	A.V.TV.	25 Hill St., Edomondston, E3V 1H7	506-735-4073
	GALBRAITH ELECTRONICS LTD.	A.V.TV.	646 Fairville Blvd., Saint John, E2M 3M2	506-635-0317
	PLOOM ELECTRONICS	A.V.TV.	P.O. BOX 798, Woodstock, E0J 2B0	506-328-3205
	P.R. ELECTRONIQUE	A.V.TV.	1187 Principale, P.O. BOX 4068, Beresford, E0B 1H0	506-548-9447
	WALKER'S RADIO & T.V.	A.V.TV.	RR#1, Tinker Rd., Aroostook, E0J 1B0	506-273-2090
NEWFOUNDLAND	A-1 ELECTRONICS LTD.	A.V.TV.	93 West St., Cornerbrook, A2H 2Y6	709-634-1581
	L.M. ELECTRONICS & INSTRUMENTATION	A.V.TV.	Ashley Building, Pete St., St. Johns, A1E 3W8	709-722-4556
	ONE-STOP CLINIC	A.V.TV.	291 Elizabeth Dr., Gander, A1V 1W6	709-256-7070
	TUCKER ELECTRONICS	A.V.TV.	153 Pennywell Road, St. John's, A1C 2L5	709-722-6557
NOVA SCOTIA	B & B ELECT.	A.V.TV.	494 Prince St., Sydeny, B1P 5L7	902-562-4787
	BACKMAN VIDCOM LTD.	A.V.TV.PV.	63 Crane Lake Dr., Bayers Lake Business Park, Halifax, B3S 1B5	902-450-5005
	BEDFORD ELECTRONICS	A.V.TV.	109 Rocky Lake Dr. Unit 2, Bedford Trade Mart, Bedford, B4A 2T3	902-835-6006
	BESTWAY TV.	A.V.TV.	RR#2 Scotsburn, Pictou, B0K 1R0	902-485-6655
	BLUENOSE ELECTRONICS	A.V.TV.	19 First St., Yarmouth, B5A 1S9	902-742-8885
	HAMBLEN'S AUDIO SERV.	A.V.TVC.	6310 Hood St., Halifax, B3K 2V7	902-453-0400
	MORGAN ELECTRONICS	A.V.TV.VM.	487 Heelan St., New Waterford, B1H 4K4	902-862-3310
	MUNRO ELECTRONICPARTS & SERVICE	A.V.TV.	10 Morris Dr. Suite 19, Dartmouth, B3B 1K8	902-468-4991
	SIGMA ELECTRONICS LTD.	A.V.TV.VM.PV.	107 Joseph Zatzman Dr., Dartmouth, B3B 1N3	902-468-2727
	VIDEO WORLD INC.	A.V.TV.	1009 Kentucky Crt., New Minas, B4N 4NI	902-681-7577
ONTARIO	AAB-TECH ELECTRONICS	A.V.TV.VM.	1050 McNicoll Ave., UNIT #10, Scarb, M1W 2N8	416-490-0200
	AN-MAR SERVICE INC.	A.V.TV.	15 Ceder-Pointe Dr., Unit #3, Barrie, L4N 5R7	705-722-8877
	ARGO ELECTRONICS LTD.	A.V.TV.VM.	209 Danforth Ave., Toronto, M4K 1N2	416-465-5439
	AUDIO VIDEO ENG. SERVICE	A.V.TV.VM.	82 Burland St., Ottawa, K2B 6K1	613-596-3075
	A-V ELECTRONIC SERVICES	A.V.TV.	450 Weber St., N. Waterloo, N2L 4E7	519-884-8660
	BECK TV ELECTRONICS	A.V.TV.VM-M.	956 Oxford St. E., London, N5Y 3K2	519-659-8258
	BESTVIEW VIDEO	A.V.TV.	20 Dundas St., E. "B", Mississauga, L5A 1W2	416-279-8608
	BILL HAYES RADIO	A.V.TV.	213 Hunter St. W., Peterborough, K9H 2L1	705-742-0056
	CAMBRIDGE ELECT.	A.V.TV.	645 King St. E., Cambridge, N3H 3N7	519-653-2120
	CARLEA ELECTRONICS	A.V.TV.	BOX 1565, 13 Armstrong St., New Liskead, P0J 1P0	705-647-5666
	CLASS A ELECTRONICS	A.V.TV.VM.	895 Sandy Beach Rd., Unit 13-C, Pickering, L1W 3N6	416-420-1520
	C.N.C. ELECTRONICS LTD.	A.V.TVC.VM.	1105 Bathurst St., Toronto, M5R 3H1	416-535-4598
	COKER ELECTRONICS SERV.	A.V.TV.	437 Aspdin Rd., Huntsville, P0A 1K0	705-789-5397
	COLTECH ELECTRONICS	A.V.TV.	306 Kenora Ave., Hamilton, L8E 2W2	416-561-5506
	CONSUMER ELECTRONCIS	TV.S/C.	87 Thornmoungt Dr., #33, Scarborough, M1B 5S5	416-281-8411
	CRESCENT T.V. SERVICE	A.V.TV.VM.	3033 Merentette Windsor, N8X 4G1	519-969-1622
	D & B VIDEO SERVICE	A.V.TVC.VM.	4377B Kingston Rd., Scarborough, M1E 2M9	416-724-0131
	D.J. CONSUMER ELECTRONICS	A.V.TV.	280 Edward St., St. Thomas, N5P 4C2	519-633-8874
	DOWNTOWN ST. CLAIR ELECTRONICS	A.V.TV.	1643 St. Clair Ave. W., Toronto, M6N 1H7	416-653-2828
	DUAL ELECTRONICS	A.V.TV.	153 Mitton St. N., Sarnia, N7T 6E9	519-344-2323
	ELECTRON SERVE INC.	A.V.TV.VM.	722 Kipling Ave., Toronto, M8Z 5G5	416-255-1428
	HEINZ GILLEBERG ELECT. LTD.	A.V.TV.	450 Horton St., London, N6B 1M3	519-434-1072
	HITRONIX SERVICE	A.V.TV.	50 Weybright Crt. Unit A-12 Scarborough, M1S 5A8	416-299-6863
	HOLDCROFT ELECT. LTD.	A.V.TV.	500 Raleigh Ave. #11, Oshawa, L1H 3T2	416-579-4030
	HOME ELECTRONICS	A.V.TV.	180B 12th St. E., Owen Sound, N4K 1V7	519-371-3808
	HOME ELECT. (OTT. EAST)	A.V.TV.	34-4310 Canotek Rd., Gloucester, K1J 9N5	613-746-7700
	HOME ELECT. (OTT. WEST)	A.V.TV.	3-1950 Merivale Rd., Nepean, K2G 5T5	613-723-9194

Province	Name	Products	Address	Telephone
ONTARIO	HOME TV SERVICE	A.V.TV.VM.	482 Cosburn Ave., Tronto, M4J 2N5	416-421-1259
	K ELECTRONICS	A.V.TV.	368 Churchill Ave., Ottawa, K1Z 5C2	613-725-2036
	K ELECTRONICS	A.V.TV.	1420 Youville Dr. #8, Orleans, K1C 7B3	613-830-5566
	K.L. ELECTRONICS	A.V.TV.	10225 Yonge St., Richmond Hill, L4C 3B2	416-770-5990
	MIDTOWN VCR SERVICE	A.V.TV.VM-M.	170 Andrew St., Sault Ste. Marie, P6A 1N3	705-949-3252
	MILLER ELECTRONICS	A.V.TV.	Maitland Dr., Maitland Plaza Unit #3, Belleville, K8N 4Z5	613-969-5299
	MOBIUS AUDIO SYSTEM	A.V.TV.	119 John St. N., Hamilton, L8R 1H7	416-528-1368
	MONTGOMERY ELECTRONICS	A.V.TV.VM.	3079 Princess St., Kingston, K7L 4V2	613-389-2846
	NO 1 ELECTRONICS	A.V.TV.VM.	1535 Meyerside Dr. #17 Mississauga, L5T 1M9	416-564-1100
	NORTHERN VIDEO RESEARCH	A.V.TV.VM.PV.	2674 Homelands Dr., Mississauga, L5K 1H9	416-823-6930
	P.J's T.V.	A.V.TV.	205 Church St., Pembrooke, K8A 4K8	613-735-8112
	RAYJAC ELECTRONICS	A.V.TVC.	980 Alness St., Unit 8 Downsview, M3J 2S2	416-661-5237
	RJ ELECTRONICS	A.V.TV.	101 Ferris Dr., North Bay, P1B 8Z4	705-474-0830
	S & S ELECTRONICS	A.V.TV.	3 Winnifred N., Smith Falls, K7A 2M9	613-283-0441
	SOO VIDEO TV SALES & SERVICE	A.V.TV.	84 Albert St. E., Sault Ste. Marie, P6A 2H9	705-254-5751
	STARGUARD ELECT. SERVICES	A.V.TV.	96 Main St. W., Ridgetown, N0P 2C0	519-674-0073
	STRINGERS ELECTRONIC	A.V.TV.	1899 Lasalle Blvd., Sudbury, P3A 4X5	705-566-5177
	THUNDER BAY AUDIO SERV.	A.V.TVC.VM.	219 South Algoma St., Thunder Bay, P7B 3C3	807-345-7336
	THUNDER BAY COLOR TV	TV.	408 Victoria Ave. E., Thunder Bay, P7C 1A5	807-623-6111
	TIM'S ELECTRONICS	A.V.TV.	1124A Paul St., Cornwall, K6H 6H5	613-933-4037
	TOP TECH ELECTRONICS	A.V.TV.VM-M.	310 Adelaide St. S., London, N5Z 3L2	519-686-6515
	TOP TECH ELECTRONICS	A.V.TV.VM-M.	907 Frederick St., Kitchener, N2B 2B9	519-578-7600
	TUNE AUDIO ELECT. SERV.	A.V.TVC.	2250 Midland Ave., Unit 22 Scarborough, M1P 4R9	416-291-7024
	VIDEO 2000	A.V.TV.VM.	50 Fasken Dr. #1C, Rexdale, M9W 1K5	416-674-1396
	VIDEO SER. CENTER LTD.	A.V.TV.VM.	155 Dundas St. E., Toronto, M5B 1E4	416-365-7606
	WINDSOR AUDIO & ELECT.	A.V.TVC.	6010 Tecumseh Rd. E., Windsor, N8T 1E3	519-944-4406
PRINCE EDWARD ISLAND	GALLANT ELECTRONICS	A.V.TV.	96 Mount Edward Rd., Charlottetown, C1A 8C5	902-892-3100
	L.P. TV. & STEREO	A.V.TV.	Day's Corner, Wellington, C0B 2E0	902-854-2290
QUEBEC	ACADIEN ELECTRONIQUE	A.V.TV.VM.	7711 St., Laurent Blvd., Montreal, H2R 1X1	514-270-1105
	ALAIN MURRAY ELECT.	A.V.TV.	11 Cimon, La Malbaie, G5A 1E5	418-665-3590
	BG ELECTRONIQUE ENGR.	A.V.TV.	150 Rue Ste. Pierre Sud, Joliette, J6E 5Y7	514-759-3091
	B K AUDIO SERVICE	A.V.TV.	2025, Boul Fortin (Parc Industriel), Chomedy, Laval, H7S 1P4	514-667-0491
	CABLO DISTRIBUTION FERM.	A.V.TV.	850 Le Carrefor, CP 1379, Fermont, G0G 1J0	418-287-5444
	CANVOX LTD.	A.V.TV.	1600 Beaulac St., Ville Ste Laurent, H4R 1W8	514-337-9550
	CAPRI ELECTRONIQUE	A.V.TV.VM.	7903-20 East Ave., St. Michel, Montreal H1Z 3S6	514-376-4990
	CENTRE AUDIOTECH M.R. INC.	A.V.TV.	355, Marie de L'incarnation, QUEBEC, G1N 3G9	418-681-6083
	CENTRE DE SERVICE AUDIO MD LTEE	A.V.TV.	5119 7E Ave., Rosemont, H1Y 2N2	514-593-8383
	CENTRE DE SERVICE PLUS	A.V.TV.	2145 Rue Ste. Anne, Suite 101, Ste. Hyacinthe, J2S 5H5	514-771-0171
	CENTRE ELECTRONIQUE PABOK	A.V.TV.	499 Hotel de Ville, CP 996, Chandler, G0C 1K0	418-689-4284
	C.F. ELECTROTECH LTEE.	A.V.TV.	1680 Boul Lafleche, Baie-Comeau, G5C 1C9	418-589-7575
	CIRCUITS ELECTRONIQUES	A.V.TV.	8155 Larrey, Anjou, H1J 2L5	514-325-8155
	CLAUDE GIRARD TV	A.V.TV.	786 Rue St. Paul, Chicoutimi, G7J 3B7	418-549-8767
	CLINIQUE ELECTRONIQUE	A.V.TV.	3187 A Chemin Ste. Foy, Ste-Foy, G1X 1R3	418-653-5220
	D.N.R. ELECTRONIQUE	A.V.TV.	750 de La Pente-Douce, Quebec, Q1N 2M2	418-681-0964
	ELECTRONIQUE MERCIER LTD.	A.V.TV.	162 Fraser, Riviere du Loup, G5R 1C8	418-862-7269
	FORTIN TV SER. ENG.	A.V.TV.	273 St. Pierre, Matane, G4W 2B7	418-562-3571
	GAGNE ELECTRONIQUE ENR.	A.V.TV.	1184 Boul Belanger, Baie-Comeau, G5C 2P3	418-589-6206
	HECOTRON INTERNATIONAL	A.V.TV.VM.	4800 Cote Vertu, Ville St. Laurent, H4S 1V9	514-334-4932
	JACOB TV SERVICE ENR.	A.V.TV.	820-151E Rue Est., St-Georges, Beauce, G5Y 2K1	418-228-5435
	J.R. SERVICE INC.	A.V.TV.	5115 Jean 23rd Boul, Trois Riviers, G8Z 4A5	819-373-0066
	L'OPTION TECHNIQUE	A.V.TV.VM.	2635 Hochelaga, Ste. Foy, G1V 3S5	418-651-9725
	LOUVIDED INC.	A.V.TV.	539 Principale Ouest, St. Anaclet, G0K 1H0	418-724-6172
	NELSONIC INC.	A.V.TV.	180-6e Ave., Dolbeau, G8L 1X3	418-276-8660
	NORVIC TV	A.V.TV.	59-146E Ave., Ile-Perrot, J7V 5V6	514-453-7050
	PRO-SERVICE ELECTRONIQUE	A.V.TV.	5715 Boul Royal, Trois Rivieres, G9A 4N9	819-374-6930
	ROSS ELECTRONIQUE INC.	A.V.TV.	985 Jean de Breboeuf Drummondville, J2B 4D2	819-477-1522
	SELECTROTEC INC.	A.V.TV.	4717 Boul de La Rive-Slt Sud, St. David, Levis, G6W 1H5	418-835-3966
	SERVICE ELECTRO MENAGERS L.M. ENR.	A.V.TV.	33 4e Ave., Val-d'Or, J9P 1R3	819-874-0102
	SOREL ELECTRONIQUE INC.	A.V.TV.	193A Hotel Dieu, Sorel, J3P 1M3	514-743-1441
	SYLVAIN GRENON ELECT. ENR.	A.V.TV.	887 Boul St-Joseph, Roberval, G8H 2L8	418-275-5637
	VGS ELECTRONIQUE INC.	A.V.TV.VM.	1526 A Boul Talbot, Chicoutimi, G7H 4C2	418-696-3292
	VIDEO ELECTRONIQUE	A.V.TV.	1800 Laverendrye, Trois Rivieres, G8Z 2E2	819-376-1541
SASKATCHEWAN	AUDIO MASTER ELECTRONICS	A.V.TVC.	844 51st St. E., Saskatoon, S7K 5C7	306-665-0808
	CITY ELECTRONICS REPAIRS	A.V.TV.	127-22nd St. W., Saskatoon, S7M 5M2	306-652-4919
	CLASSIC CAR AUDIO LTD.	C	1414B Lorne St., Regina, S4R 2K4	306-949-1661
	HITEK ELECTRONICS	A.V.TV.VM.	1209 22nd St. W., Saskatoon, S7M 0S6	306-373-5577
	SPECTRUM AUDIO	A.V.TV.VM.	1322 Mcintyre St., Regina, S4R 2M8	306-569-2525
	TWIN CITY RADIO & TV	A.V.TV.	1922-100 St., North Battleford, S9A 0X3	306-446-2322
YUKON	ELECTRONIC CENTRE	A.V.TV.	95-F Lewes Blvd., Whitehorse, Y1A 3J4	403-668-4028

EXPLANATION OF PRODUCTS CODES/EXPLICATION DES CODES DES PRODUITS

A : AUDIO EQUIPMENT (INCLUDING CD PLAYER) / EQUIPMENT AUDIO (INCLUANT LECTEUR DE DISQUE COMPACT)
V : CONSUMER VIDEO EQUIPMENT / EQUIPMENT VIDEO POUR CONSOMMATEUR
PV : PRO VIDEO EQUIPMENT / EQUIPMENT VIDEO PROFESSIONEL
TV : COLOR TV (INCLUDING IN-HOME SERVICE) / TV COULEUR (SERVICE A DOMICILE)
TVC : COLOR TV (CARRY IN SERVICE) / TV COULEUR (SERVICE A L'ATELIER)
VM : VIDEO MOVIE AND COLOR CAMERA / CAMESCOPE (VIDEO MOVIE) ET CAMERA COULEUR
C : CAR AUDIO ONLY / AUDIO D'AUTO SEULEMENT

JVC CANADA INC.

HEAD OFFICE: 21 FINCHDENE SQUARE, SCARBOROUGH, ONTARIO MIX 1A7
VANCOUVER : 13040 WORSTER COURT, RICHMOND, B.C. V6V 2B3

AS OF MARCH 1, 1993 / A PARTIER DU 1ER MARS 1993

Warranty applies only to PRODUCT distributed in Canada by JVC Canada Inc.

JVC

La garantie s'applique seulement aux PRODUITS distribués au Canada par JVC Canada Inc.

WARRANTY
GARANTIE

JVC CANADA INC.
21 Finchdene Square, Scarborough, Ontario M1X 1A7
TEL: (416) 293-1311 FAX: (416) 293-8208
http://www.jvc.ca

JVC CANADA INC. (hereafter called "JVC") gives the following express warranty for each new JVC product distributed in Canada by JVC and sold by an authorized JVC dealer.
JVC warrants that this JVC product is free, under normal use and maintenance, from any defects in material and workmanship subject to the following terms and conditions:

1. To Obtain Warranty Service:
   (a) The JVC Warranty Control Card herein provided must be completed in full and posted within 7 days of date of purchase of the JVC product.
   (b) This JVC Warranty Control Card must be completed in full and presented together with proof of purchase of the JVC product requiring service.
   (c) The JVC product must be brought in for service to an authorized JVC Service Centre.
2. Limitation:
   This Warranty shall not apply to:
   (a) Repair or replacement of any cabinets, batteries, plates, connection cords, antennas, dust covers, knobs, speaker grills, speaker cones, projection screens, projection screen savers, and all accessories.
   (b) Any defects caused or repairs required as a result of misuse, abusive operation, negligence, improper use and/or insufficient care.
   (c) Any defect caused or repairs required as a result of not following the instructions in the operation manual.
   (d) Any JVC product tampered with, adjusted or repaired by any party other than JVC or authorized JVC Service Centre personnel.

JVC CANADA INC. (ci-après appelé "JVC") énonce la garantie expresse suivante pour tout nouveau produit JVC, distribuè au Canada par JVC et vendu par un détaillant JVC autorisé.
JVC vous garantit que ce produit JVC est dégagé, sous une utilisation et d'entretiens normaux, de tout défauts d'habileté professionnelle et d'articles sous réserve des modalités et conditions suivantes:

1. Pour obtenir un service de garantie:
   (a) La carte garantie de contrôle JVC ci-incluse doit contenir les renseignements complets et être postée dans les sept jours (7) de la date d'achat du produit JVC.
   (b) Cette carte garantie de contrôle JVC doit contenir les renseignements complets et être présentée avec la preuve d'achat de l'article JVC pour obtenir le service.
   (c) Le produit JVC doit être apporté chez un détaillant JVC autorisé pour un service d'entretien .
2. Restrictions:
   Cette garantíe ne s'applique pas aux:
   (a) Réparation ou remplacement de tous cabinets, batteries, panneaux avant, cordons de raccord, antennes, housses de protection, boutons, treillis d'enceinte accoustique, cônes de haut-parleur, écrans de projection, protecteurs d'écrans de projection, et tous les accessoires
   (b) Tous défauts occasionnés ou réparations requises suite à une utilisation abusive ou mauvaise, de négligence, soins insuffisants et/ou utilisation incorecte.
   (c) Tous défauts occasionnés ou réparations requises suite à l'omission de suivre les recommandations d'un manuel d'instruction.
   (d) Tout produit JVC touché, ajuste ou réparé par toute autre entreprise que JVC ou un centre de service d'entretien et de réparation autorisé JVC.

(e) Any JVC products on which the serial number has been defaced, modified or removed.
(f) Maintenance, cleaning or periodic check-up
(g) Conversion to foreign or domestic voltage or frequency.
(h) Any JVC product without the Canadian Electrical Safety Regulations ID.
(i) Any JVC products used for commercial or institutional, rental, or display purposes.
Parts ..... 1 year (except video head - 90 days)
Labour .. 90 days
(j) Any JVC product which has been resold and no longer owned by the original purchaser.
(k) Product purchased from "outside Canada", "bankrupcy liquidator".

(e) Tout produit JVC dont le numéro de série a été mutilé, modifié ou enlevé.
(f) L'entretien, vérifications périodiques ou nettoyage.
(g) La conversion à une fréquence, une tension étrangère ou domestique.
(h) Tout produit JVC sans le signe d'identification (SA) du Canada.
(i) Tout produit JVC utulisé à des fins commerciales ou institutionnelles, de location ou d'étalage.
Pieces ..... 1 an (excepté les têtes vidéo - 90 jours)
Main-d'oeuvre ... 90 jours
(j) Tout produit JVC qui a été revendu et qui n'est plus la propriété de l'acheteur originel.
(k) Produit achete à "l'extérieur du Canada", "liquidateur de faillite".

WARRANTY TERM (VALID FROM THE DATE OF PURCHASE)
CONDITIONS DE GARANTIE (VALABLE à PARTIR DE LA DATE D'ACHAT)

PRODUCT PRODUIT	PARTS (Years) PIECES (années)	Labour (Years) MAIN-D'OEUVRE (années)
Projection/TVs, Projection/TV In-Home Service (25" and above) Téléviseurs couleurs, écrans de projection Service à domicile pour écrans de projection couleur (25" et plus)	2	2
* In-Home service to be provided where available. Where it is not available, the Purchaser must assume the responsibility and expense for the proper packing, shipment, and all costs associated with the delivery of the equipment to and from the closest JVC Authorized Service Centre. * Service a domicile fourni par un détaillant disponible. S'il n'y à pas de service JVC disponible à proximité, l'acheteur doit assumer la responsabilité et les coûts pour un emballage adéquant, l'expédition, ainsi que tous les coûts associés à la livraison de l'équipment par et depuis le détaillant JVC autorisé pour un Service d'entretien.		
Receivers, Amplifiers, Tuners, Home Speaker Systems, Digital Acoustic Processors Récepteurs, amplificateurs, syntonisateurs, systèmes de haut-parleur maison, enceintess acoustiques	3	3
TV VCR Combo TV VCR Comb	2	2
AC Adapters, Remote Controls, Headphones, Microphones Adaptateurs AC, télécommande, casque d'écoute, microphones, piles	90 days 90 jours	90 days 90 jours
All Other Categories Toutes les autres catégories	1	1
D-ILA Rear Projection TV TV projection arrière D-ILA	2	2
Lamp Warranty For Consumer Use Garantie de la lampe pour utilisation de consommateur	1	1
Lamp Warranty For Commercial Use Garantie de la lampe pour utilisation de commerciale	90 days 90 jours	90 days 90 jours

(l) Any defects caused by fire, flood, lightning, power surge, or other events beyond the control of JVC.

(m) FOR AUTO PRODUCTS
Warranty does not cover elimination of car static or electrical interferences, cleaning of head, adjustments, or labour cost for the removal or reinstallation of the unit for repair.

3. Standards:
If any defects should be found in a JVC product within the applicable terms, necessary repairs shall be made at no cost to the purchaser for parts or labour when JVC acknowledges that such defects are due to faulty material or workmanship.

4. Exclusion of All Other Express Warranties:
This warranty constitutes the entire express warranty given by JVC for JVC products and no dealer or service centre personnel or his, its or their agent or employee is, or are authorized to extend or enlarge this warranty on behalf of JVC.

5. Disclaimer of Consequential Damage:
To the extent the law permits JVC disclaims any responsibility for loss of time or use of its product, transportation costs, or any other indirect, incidental or consequential damage or inconvenience.

New

And mail to the address below.
You may also register via internet at www.jvc.ca

(l) Tous dommages occasionnés par le feu, inondation, éclair, surtension ou autres évènements hors du contrôle de JVC.

(m) POUR LES PRODUITS DE L'AUTOMOBILE
La garantie ne couvre pas l'élimination d'interférences statiques ou électriques de la voiture, le nettoyage de tête, les adjustements, ou les coûts de main-d'oeuvre associés à l'enlèvement ou à la réinstallatíon de l'unté pour réparation.

3. Criteres:
Si un produit JVC s'avérait défectueux selon les conditions applicables, les réparations nécessaires seront effectuées sans coûts additionnels à l'acheteur pour les pièces et main d'oeuvre lorsque JVC reconnaît que de telles défectuosité sont causées par une défectuosité de matériel ou de fabrication.

4. Exclusion de toutes autres garanties expresses:
Cette garantie constitue l'entière garantie express donnée par JVC pour les produits JVC. Nul représentant ou employé d'un détaillant ou d'un service d'entretien n'est autorisé à prolonger cette garantie au nom de JVC.

5. Dénégation des dommages indirects:
Dans la mesure permise par la loi, JVC dénie toute responsabilité pour perte de temps ou d'usage de ses produits, des coûts de transports, ou tout autre dommage ou inconvénient indirect, accidentel et conséquent.

Neut

Et poster à l'adress ci-dessous.
Vous pouvez également vous inscrire par internet à www.jvc.ca

Detach here.

à découper ici

PLACE STAMP HERE

(affranchissement)

JVC CANADA INC.

21 Finchdene Square
Scarborough, ON M1X 1A7

CANADA ONLY

JVC

OWNER'S COPY OF WARRANTY CARD
COPIE D'ENREGISTREMENT DE LA GARANTIE DU PROPRIÉTAIRE

(Save sales docket together with this warranty card, as a proof of date of purchase.

La facture et cette grantie sont vos preuves de la date d'achat; rangez-les.)

MODEL : NX - CDR7 SERIAL NO. :
MODÈLE : NO DE SÉRIE :

Purchase from : Date purchased :
Acheté chez : Date acheté :

Dealer's Address :
Adresse du Vendeur :

No. Street
No Rue

City or Town Prov. Postal Code
Ville Prov. Code Postal

Owner's Name :
Nom du Proprietaire :

Owner's Address :
Adresse du Proprietaire :

No. Street Apt.
No Rue App.

City or Town Prov. Postal Code
Ville Prov. Code Postal

BT-52004-2
(0201)

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WARRANTY CONTROL CARD
CARTE DE CONTRÔLE DE LA GARANTIE

WARRANTY APPLIES ONLY TO PRODUCT DISTRIBUTED IN CANADA BY JVC CANADA INC.

IMPORTANT: This warranty control card must be filled in and posted to the address indicated on the back hereof within 7 (seven) days from the date of purchase.

IMPORTANT: Cette carte doit être renvoyée dûment remplie à l'adresse indiquée au verso, dans les 7 jours de la date d'achat.

(PLEASE PRINT /EN LETTRES MOULÉES)

MODEL : NX - CDR7 SERIAL NO. :
MODÈLE : NO DE SÉRIE :

Purchased from : Date purchased :
Acheté chez : Date acheté :

Dealer's Address :
Adresse du Vendeur :

No. Street
No Rue

City or Town Prov. Postal Code
Ville Prov. Code Postal

Owner's Name :
Nom du Proprietaire :

Owner's Address :
Adresse du Proprietaire :

No. Street Apt.
No Rue App.

City or Town Prov. Postal Code
Ville Prov. Code Postal